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UNIVERSITY



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VOLUME 11

January, 1939

NUMBER 1

# BULLETIN OF DUKE UNIVERSITY

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*The School of Nursing*  
1939



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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Published by Duke University in January, February, March, April, May, and June. Entered as Second Class Matter March 25, 1929, at the Post Office at Durham, N. C., Under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF NURSING



1939

DURHAM, NORTH CAROLINA  
1939

## FOREWORD

This bulletin is issued for prospective students of nursing. Admissions into any class are made only on the understanding that every decision of the School of Nursing Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL.

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## SCHOOL OF NURSING AND HOSPITAL CALENDAR 1939-1940

1939

- Jan. 3. Tuesday—Winter Quarter begins.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Spring Quarter begins.  
April 10. Easter Monday: a holiday.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.  
June 19. Monday—Summer Quarter begins.  
July 4. Tuesday—Independence Day: a holiday.  
Sept. 2. Saturday—Summer Quarter ends.  
Sept. 28. Thursday—Autumn Quarter begins.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 16. Saturday—Autumn Quarter ends.

1940

- Jan. 2. Tuesday—Winter Quarter begins.  
March 16. Saturday—Winter Quarter ends.  
March 25. Easter Monday: a holiday.  
March 26. Tuesday—Spring Quarter begins.  
June 3. Monday—Commencement.  
June 8. Saturday—Spring Quarter ends.

## OFFICERS OF ADMINISTRATION

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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BESSIE BAKER, R.N., B.S.\*  
*Dean of the School of Nursing*

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## COMMITTEES

### SCHOOL OF NURSING COMMITTEE

BESSIE BAKER\*  
W. C. DAVISON  
ISABEL H. DILL

G. S. EADIE  
ANN H. GARDINER  
GARNETT A. NESTER

### NURSING SERVICE COMMITTEE

F. V. ALTVATER  
J. L. CALLAWAY  
GARNETT A. NESTER  
MARGARET PEELE

GRACE SAMPLE  
MILDRED SHERWOOD  
J. ELIZABETH WHITE  
BARNES WOODHALL

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\* On leave, 1938-39.



## FACULTY OF THE SCHOOL OF NURSING

BESSIE BAKER, R.N., B.S.\*

*Dean of the School of Nursing and Professor of Nursing Education*

Diploma, Johns Hopkins Hospital School of Nursing, 1902; Assistant Director of Nursing, Women's Hospital, 1910-12; Assistant Director of Nursing, Johns Hopkins Hospital, 1912-17; Chief Nurse, Base Hospital No. 18, A. E. F., 1917-19; B.S. and Diploma in Administration in Schools of Nursing, Teachers College, Columbia University, 1922; Director of Nursing at Charles T. Miller Hospital, St. Paul, and Assistant Professor of Nursing, University of Minnesota, 1922-30; *Dean of the School of Nursing and Professor of Nursing Education, 1930—.*

ANN HENSHAW GARDINER, R.N., B.S., M.S.

*Assistant Professor of Nursing Education*

Diploma and Teaching Certificate, Shepherd College State Normal, Shepherdstown, W. Va., 1909; taught public schools, 1909-11; Diploma, Massachusetts General Hospital School of Nursing, 1914; Theoretical and Practical Instructor, St. Luke's Hospital, New Bedford, Mass., 1914-17; U. S. Base Hospital, No. 6, A. E. F., 1917-19; Superintendent of Nurses, Bridgeport Hospital, Bridgeport, Conn., 1920-21; B.S. and Teacher's Diploma, Teachers College, Columbia University, 1923; Educational Director, Baylor University School of Nursing, Dallas, Texas, 1922-24; Premedical course, University of Washington, Seattle, Wash., 1925; Director of Education, Stanford University School of Nursing, 1925-26; M.S., Kansas State Agricultural College, 1927; Director of Education, Flushing Hospital, Flushing, N. Y., 1927-30; *Assistant Professor of Nursing Education, 1930—.*

ISABEL HUNTER DILL, R.N., B.S.

*Instructor in Principles and Practice of Nursing*

Diploma, Peter Bent Brigham Hospital School of Nursing, 1920; B.S. and Diploma as Instructor in Schools of Nursing, Teachers College, Columbia University, 1933; Head Nurse, 1921-23; Surgical Supervisor, 1923-25; Peter Bent Brigham Hospital; Medical Instructor in Nursing Practice, St. Luke's Hospital, New Bedford, Mass., 1925-30, 1931-32; Instructor in Nursing Practice, Stanford University School of Nursing, San Francisco, Calif., 1933-34; Instructor in Teaching Nursing Practice, Simmons College, Boston, Summer 1933-34; *Instructor in Nursing Practice, Duke Hospital, 1934—.*

JULIA ELIZABETH WHITE, A.B., R.N.

*Assistant to the Dean*

A.B., Newberry College, Newberry, S. C., 1927; Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Assistant Night Supervisor, Harriet Lane Home, Johns Hopkins Hospital, 1930-32; *Assistant to the Dean, Duke Hospital, 1933—.*

GARNETT ANNE NESTER, R.N., B.S.

*Assistant to the Dean*

Diploma, Church Home and Infirmary School of Nursing, 1930; B.S. as Instructor in Schools of Nursing, Teachers College, Columbia University, 1932; Instructor in Nursing Procedures, Elizabeth General Hospital, Elizabeth, N. J., 1932-33; Instructor in Theory, Morristown Memorial Hospital, Morristown, N. J., 1933-34; Assistant Superintendent of Nurses, Emergency Hospital, Washington, D. C., 1934-35; *Assistant to the Dean, Duke Hospital, 1935—.*

HILDA C. BURNHAM, R.N.

*Instructor in Medicine and Supervisor of Medical Service*

Diploma, Johns Hopkins Hospital School of Nursing, 1930; Head Nurse, Isolation Ward, Johns Hopkins Hospital, 1930-31; Assistant Night Supervisor, Johns Hopkins Hospital, 1931-33; Night Supervisor, Osler Medical Clinic, Johns Hopkins Hospital, 1933-34; Assistant Supervisor and Ward Instructor, Osler Medical Clinic, Johns Hopkins Hospital, 1934-37; *Medical Supervisor and Instructor in Medicine, Duke Hospital, 1937—.*

\* On leave, 1938-39.

## MATILDA E. HOLLEMAN MOSELEY, R.N., A.B., B.S.

*Instructor in Surgery and Supervisor of Surgical Service*

A.B., Duke University, 1931; Diploma, Duke University School of Nursing, 1934; Ward Management and Teaching, Frances Bolton School of Nursing, Cleveland, Ohio, 1935; B.S. in Nursing, Duke University School of Nursing, 1936; *Supervisor of Surgical Service, Duke Hospital, 1936—.*

## EDITH HINVES, R.N.

*Instructor and Supervisor of Nursing Service in Dispensary*

Diploma, Johns Hopkins Hospital School of Nursing, 1923; Head Nurse, Operating Room, Johns Hopkins Hospital, 1923-25; Assistant Supervisor Operating Room, Johns Hopkins Hospital, 1925-26; Assistant Supervisor Dispensary, Johns Hopkins Hospital, 1926-27; Operating Room Supervisor and Part-time Instructor, Palmerton Hospital, Palmerton, Pa., 1927-33; *Supervisor Nursing Service in Dispensary, Duke Hospital, 1933—.*

## MARION FRANCES BATCHELDER, R.N.

*Instructor in Operating Room Technique, Supervisor of the Operating Room*

Diploma, Peter Bent Brigham Hospital School of Nursing, 1920; Head Nurse, 1921-23; Supervisor of Operating Room, Peter Bent Brigham Hospital, 1923-27; Head Nurse, Operating Room, Johns Hopkins Hospital, 1927-30; *Supervisor of Operating Room, Duke Hospital, 1930—.*

## MILDRED SHERWOOD, R.N.

*Instructor in Pediatrics and Supervisor of Pediatric Service*

Diploma, Mount Sinai Hospital, New York City, 1923; Head Nurse, Mount Sinai Hospital, 1923-26; Head Nurse, Johns Hopkins Hospital, 1926-30; *Instructor in Pediatrics and Supervisor of Pediatric Service, Duke Hospital, 1930—.*

## JANE McCABE IRVINE, R.N., B.S.

*Instructor in Obstetrics and Gynecology, and Supervisor of Obstetrical and Gynecological Service*

Graduate in Nursing, University of Minnesota School of Nursing, 1934; B.S. in Nursing Education, University of Minnesota, 1935; Obstetrical Supervisor, Minnesota General Hospital, Minneapolis, Minn., 1935-37; *Supervisor, Obstetrics and Gynecology, Duke Hospital, 1937—.*

## ANN M. HUGHES, A.B.

*Laboratory Assistant*

A.B., Duke University, 1938; *Laboratory Assistant, Duke University School of Nursing, 1938—.*

## CORNELIA CAMPBELL, R.N.

*Night Supervisor*

Asheville College for Teachers, Asheville, N. C., 1930-31; Diploma, City Hospital, Greenville, S. C., 1934; Assistant Night Supervisor, Greenville Hospital, 1934-35; General Duty, Duke Hospital, 1935-36; Assistant Night Supervisor, 1936-37; *Night Supervisor, 1937—.*

## GLADYS McBANE DENHOLM, R.N.

*Night Supervisor*

Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-36; Evening Supervisor, Duke Hospital, 1936-37; Head Nurse, Duke Hospital, 1937; *Night Supervisor, 1937—.*

## MARGARET KUYKENDAL, R.N., B.S.

*Evening Supervisor*

Queens College, Charlotte, N. C., 1928-30; Diploma, Duke University School of Nursing, 1934; B.S., in Nursing, Duke University, 1938; General Duty, Duke Hospital, 1934-36; Assistant Night Supervisor, 1936-37; *Evening Supervisor, 1937—.*

## LOUISE GURLEY SUTTON, R.N.

*Evening Supervisor*

Eastern Carolina Teachers College, Greenville, S. C., 1927-29; Diploma, Duke University School of Nursing, 1934; General Duty, Duke Hospital, 1934-37; *Evening Supervisor, Duke Hospital, 1937—*.

## ASSISTANT SUPERVISORS AND HEAD NURSES

## CREDITH LOY, R.N.

*Assistant Supervisor of the Operating Room*

Diploma, University of Kansas School of Nursing, 1926; Postgraduate work, Johns Hopkins Hospital, 1927; Surgical Supervisor, University of Kansas Hospital, 1927-29; Second Assistant Surgical Supervisor, Assistant Surgical Supervisor, Johns Hopkins Hospital, 1929-32; Assistant Surgical Supervisor, St. Luke's Hospital, Cleveland, Ohio, 1933; *Assistant Supervisor of the Operating Room, Duke Hospital, 1933—*.

## VIDA M. WOLFORD, R.N.

*Head Nurse on Private Medical Ward*

Diploma, Winchester Memorial Hospital, Winchester, Va., 1923; Night Supervisor, Winchester Memorial Hospital, 1923; Postgraduate course, St. Mary's Hospital, Rochester, Minn., 1924; Assistant Director of Nurses, Winchester Memorial Hospital, 1925-26; Operating Room Supervisor, Holzer Hospital, Gallipolis, Ohio, 1926; Private Duty, 1926-29; Supervisor, Postgraduate School of Medicine, University of Pennsylvania, 1929-34; *Head Nurse, Private Medical Ward, Duke Hospital, 1934—*.

## MADELINE MABEL DAVIS, R.N.

*Head Nurse on Women's Medical Ward*

Diploma, Sinai School of Nursing, Baltimore, 1935; General Duty, 1935-38; *Head Nurse, Women's Medical Ward, Duke Hospital, 1938—*.

## FRANCES M. KLEIN HENDERSON, R.N.

*Head Nurse on Men's Medical Ward*

Diploma, Duke University School of Nursing, 1934; General Duty, 1934-35; Assistant Head Nurse, 1935-36; Head Nurse, Duke Hospital, 1936-37; General Duty, Emergency Hospital, Washington, D. C., 1937-38; *Head Nurse, Men's Medical Ward, 1938—*.

## NOLIE MAE HOBGOOD, R.N.

*Head Nurse on Medical and Surgical Ward*

Diploma, Watts Hospital School of Nursing, 1932; Private Duty, 1932; General Duty, Duke Hospital, 1932-37; *Head Nurse, Medical and Surgical Ward, Duke Hospital, 1937—*.

## KATHERINE INEZ GIBSON, R.N.

*Head Nurse on Women's Surgical Ward*

Diploma, Presbyterian Hospital, Charlotte, N. C., 1928; Private Duty, 1928-31; General Duty, Duke Hospital, 1931-36; *Head Nurse, Duke Hospital, 1936—*.

## MARGARET REBECCA HERMAN, R.N., A.B., B.S.

*Head Nurse on Men's Surgical Ward*

A.B., Lenoir Rhyne College, Hickory, N. C., 1931; Diploma, Duke University School of Nursing, 1934; B.S., 1938; General Duty, Duke Hospital, 1934-36; *Head Nurse, Men's Surgical Ward, Duke Hospital, 1936—*.

## ROSABELLE WEHUNT, R.N.

*Head Nurse on Women's Surgical Ward*

Diploma, Duke University School of Nursing, 1936; General Duty, Duke Hospital, 1936-37; *Head Nurse, Duke Hospital, 1937—*.

## VERA VIRGINIA THOMAS, R.N.

*Head Nurse on Men's Surgical Ward*Diploma, Duke University School of Nursing, 1935; General Duty, 1935-36; *Head Nurse, Duke Hospital, 1936—.*

## JULIA JANE BRADSHAW, R.N.

*Head Nurse on Private Surgical Ward*North Carolina College for Women, 1919-20; Diploma, Duke University School of Nursing, 1934; Assistant Head Nurse, Medical Ward, 1934-36; *Head Nurse, Private Surgical Ward, 1936—.*

## G. PAULINE MARTIN, R.N.

*Head Nurse on Obstetrical and Gynecological Ward*Diploma, Duke University School of Nursing, 1937; *Head Nurse, Obstetrical and Gynecological Ward, Duke Hospital, 1937—.*

## LEONA BLANCHE EDWARDS, R.N.

*Head Nurse on Obstetrical and Gynecological Ward*Diploma, The Retreat for the Sick, Richmond, Va., 1934; *Head Nurse, 1934-35; General Duty, Duke Hospital, 1935-37; Head Nurse, Obstetrical and Gynecological Ward, Duke Hospital, 1937—.*

## MILDRED CARTER RIDDLE, R.N.

*Head Nurse, Medical Clinic, Assistant Supervisor of Public Dispensary*Stewart Hall, Staunton, Va., 1923-25; Diploma, University of Virginia School of Nursing, 1927; Industrial Nursing, 1927-30; Duke Hospital Dispensary, 1930-34; *Head Nurse, Medical Clinic, Assistant Supervisor of Public Dispensary, 1938—.*

## LECTURERS

HELGE LUNDHOLM, Ph.D.....	Psychology
HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D.....	Chemistry
BAYARD CARTER, A.B., B.S., M.A., M.D.....	Obstetrics and Gynecology
RICHARD BEVERLY RANEY, A.B., M.D.....	Orthopedics
LENOX DIAL BAKER, M.D.....	Orthopedics
EDWIN PASCAL ALYEA, S.B., M.D.....	Urology
ANGUS MURDOCH MCBRYDE, B.S., M.D.....	Pediatrics
JAY MORRIS ARENA, B.S., M.D.....	Pediatrics
DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D.....	Pathology
WILLIAM BANKS ANDERSON, A.B., M.D.....	Ophthalmology
WATT WEEMS EAGLE, A.B., M.D.....	Otolaryngology
DONALD STOVER MARTIN, A.B., M.D.....	Bacteriology
MABEL PAGE GORDON, A.B.....	Physical Therapy
VIRGINIA GEARHART GRAY, A.M., Ph.D.....	English
RAYMOND S. CRISPELL, A.B., M.D.....	Neuropsychiatry
ROBERT JAMES REEVES, A.B., M.D.....	Röntgenology
JASPER LAMAR CALLAWAY, B.S., M.D.....	Dermatology and Syphilology
JESSE HARRISON EPPERSON, B.S.....	Public Health
KARL ARDEN YOUNGSTROM, A.B., M.A., Ph.D.....	Anatomy
RICHARD VAN FLETCHER, B.S., M.D.....	Surgery
ISAAC HALL MANNING, A.B., M.D.....	Medicine
HENRY IRVING KOHN, A.B., Ph.D.....	Physiology
HAROLD BROWN, A.B., M.S., Sc.D., Dr. P.H., M.D.....	Public Health
JEROME SYLVAN HARRIS, A.B., M.D.....	Pediatrics

**REGIONAL REPRESENTATIVES**

Miss Clara Dennison, Director of School of Nursing, Strong Memorial Hospital, Rochester, N. Y.

Mrs. Cora Hodges, Superintendent of Nurses, Florida East Coast Hospital, St. Augustine, Fla.

Miss Margaret Anne March, 350 McDonald Avenue, Mobile, Ala.

Miss Sena Peterson, Superintendent of Nurses, Swedish Hospital, Minneapolis, Minn.

Miss Laura M. Grant, Associate Professor, Yale School of Nursing, New Haven Hospital, New Haven, Conn.

Mrs. J. W. Dunlap, 2330 St. John's Avenue, Jacksonville, Fla.

# THE SCHOOL OF NURSING

## GENERAL INFORMATION

The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to give a sound basic course in Nursing Education which will prepare young women to give intelligent nursing care to the sick in hospitals and homes of the community as well as an introduction to the problems of community health and preventive medicine.

The administration of the School is in the hands of the School of Nursing Committee, under the general direction of the Executive Committee of the School of Medicine.

## FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges of the University, the School of Medicine, and the Duke Hospital.

## LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Hospital Library. The students may use the general libraries on both campuses.

## RESIDENCE

The students are housed in the fireproof residence located near the Hospital. It is adequately equipped with blankets and linen, making further provision by the student unnecessary.

## HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever, and vaccinated against smallpox during the current year. All students are required to pass a physical examination upon admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Exercise for two periods a week during the first two quarters is required of all students.

## ACTIVITIES OFFERED

*Autumn Quarter* (October to December): Hockey, swimming, tennis, moderate sports, and hiking.

*Winter Quarter* (January to March): Informal gymnastics, Danish gymnastics, apparatus, games, individual gymnastics, folk dances, clogging, interpretative dancing, swimming, and basketball.

*Spring Quarter* (March to June): Tennis, swimming, baseball, track, field events, and archery.



### ADMISSION REQUIREMENTS

Application forms may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C. They must be typed, a 2 x 2½ inch recent photograph attached, and the application returned to the Dean as soon as possible. Applications are considered in the order received. If the information is satisfactory, a personal interview with the Committee or a Regional Representative will be arranged for the applicant. The candidate is notified as soon as possible whether she has been accepted or declined; if accepted, the student must send in a deposit of twenty-five dollars (\$25) within two weeks to insure enrollment. This money is applied toward her tuition. Students are admitted only at the beginning of the Autumn Quarter, but applications are considered, and a decision with regard to admission is made after January 1 of that year. Students are matriculated in the School of Nursing on September 26, 1939.

Intelligence and character are essential qualifications for admission.

In addition, each candidate must have passed her eighteenth birthday and have had the following preparation:

#### 1939

The requirements for the class entering in 1939 are graduation from an accredited high school. Students in this class will be eligible for the diploma of graduate nurse after three years in the School of Nursing. Students who have had two years (60 semester hours) of acceptable college work in an accredited college or university will in addition be eligible for the degree of Bachelor of Science in Nursing. These two years of college work may be taken before or after the completion of the work for the diploma. The college courses suggested are those listed for the 1941 class.

#### 1940

The requirements for the class entering in 1940 are completion of one year of acceptable college work in an accredited college or university. Students entering in 1940 are eligible for the diploma of graduate nurse after three years in the School of Nursing. Those who have had or who take a second year of acceptable college work are eligible for the degree of Bachelor of Science in Nursing.

The following college courses are required for admission:

	Approx. S.H.
English Composition, one year .....	6
General Inorganic Chemistry, one year .....	8
Zoology, one year .....	8
*Electives .....	8
<i>Total</i> .....	<hr/> 30

#### 1941 and Succeeding Years

The requirements for the class entering in 1941 are the completion of two years of acceptable college work (60 semester hours) in an accredited

college or university. Students entering in 1941 are eligible both for the diploma of graduate nurse and the degree of Bachelor of Science in Nursing after three years in the School of Nursing.

The following college courses are required for admission:

	Approx. S.H.
English Composition, one year .....	6
General Inorganic Chemistry, one year .....	8
General Zoology, one year .....	8
General Physics, one year .....	8
*Electives .....	30-34
<i>Total</i> .....	60-64

### EXPENSES

The estimated cost for the three years' course is approximately \$340, distributed as follows:

	Total
Tuition fee \$100 per year .....	\$300
Incidentals \$10 per year .....	30
Commencement fee .....	8

Incidental expenses include special books, excursions, student activity fees, etc.

The tuition fee is payable as follows:

- First year, \$25 upon acceptance by the School
- \$25 upon registration, September 26, 1939
- \$50 on January 1, 1940
- Second and third years, \$50 on October 1 and \$50 on January 1.

There will be no refund. The tuition includes room, board, laundry, uniforms, and some of the textbooks. The expenses of the two years of college work, which are required for the Bachelor of Science degree, are borne by the student.

### READMISSION

Students who are absent for more than one month through illness or leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

### VACATIONS

Each year is divided into four quarters of three months each. The first-year students have vacations of two weeks at Christmas and two weeks during the summer. Junior and Senior students have vacations of one month each.

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\* Electives may be chosen from any of the following fields: history; political science or economics; mathematics; English literature; foreign language (if foreign language is elected, the second year in college or the second year of college language based on two high-school units should be completed). A semester of general psychology and a year of sociology are strongly recommended.



## COURSES OF INSTRUCTION

**Anatomy and Physiology.**—Lectures, laboratory work, demonstrations.

DR. YOUNGSTROM, DR. KOHN, MISS GARDINER

**Chemistry.**—Lectures are supplemented by typical laboratory experiments and discussion of general, organic, and physiological chemistry.

DR. TAYLOR, MISS GARDINER

**Bacteriology.**—The relation of pathogenic organisms to the cause, prevention, spread and control of communicable diseases; lectures and laboratory work.

DR. MARTIN, MISS GARDINER

**Pathology.**—Lectures, demonstrations, and discussion.

DR. SPRUNT, MISS GARDINER

**Elementary Materia Medica.**

MISS GARDINER

**Advanced Materia Medica.**

MISS GARDINER

**Elementary Psychology.**—Fundamental principles underlying human conduct.

DR. LUNDHOLM

**Applied Psychology.**

MISS GARDINER

**English I, II.**—An introduction to American literature with special medical and nursing references.

MRS. GRAY

**History of Nursing.**—The course consists of lectures, recitations, lantern-slides, and collateral reading.

MISS GARDINER

**Nursing Arts I.**—Introduction to nursing, ethics, and hospital economics.

MISS DILL

**Nursing Arts II.**—Principles of elementary nursing procedures, including bandaging.

MISS DILL

**Nursing Arts III.**—Demonstrations and practice in the classroom and supervised experience on the wards.

MISS DILL AND SUPERVISORS

**Case Study.**—The relation of the patient to his social background.

MISS BURNHAM

**Senior Demonstration.**—A review of nursing procedures.

MISS DILL AND SUPERVISORS

**Professional Adjustments.**—Problems of professional activities and responsibilities.

MISS GARDINER, MR. J. BRADWAY

**Nutrition, Foods, and Cookery.**

MRS. MARTIN

**Dietetic Therapy.**

MRS. MARTIN

**Sociology.**

MISS GARDINER

**Social Service.**

MISS GARDINER, MISS PERRY GIBSON

**Introduction to Community Health.**—The fundamental laws of health with relation to the teaching function of the nurse.

MISS GARDINER

**Preventive Medicine and Public Health.**—Public Health Nursing in its relation to the modern health program.

DR. BROWN, DR. EPPERSON AND ASSISTANTS, MISS GARDINER

**Medical Diseases and Medical Nursing.**

DR. MANNING, MISS BURNHAM

**Dermatology.**

DR. CALLAWAY, MISS GARDINER

**Neurology and Psychiatry.**

DR. CRISPELL, MISS GARDINER

**General Surgical Diseases and Surgical Nursing.**

DR. FLETCHER, MRS. MOSELEY

**Operating Room Technique.**

MISS BATCHELDER

**Orthopedics.**

DR. RANEY, DR. LENOX BAKER, MRS. MOSELEY

**Urology.**

DR. ALYEA, MRS. MOSELEY

**Otology, Rhinology, and Laryngology.**

DR. EAGLE, MISS GARDINER

**Ophthalmology.**

DR. ANDERSON, MISS GARDINER

**Gynecology and Gynecological Nursing.**

DR. CARTER, MISS IRVINE

**Obstetrics and Obstetrical Nursing.**

DR. CARTER, MISS IRVINE

**Pediatrics and Pediatric Nursing.**

DR. MCBRYDE, MISS SHERWOOD

**Communicable Diseases.**

DR. MCBRYDE, MISS BURNHAM

**X-Ray.**

DR. REEVES, MISS BURNHAM

**Dental Hygiene.**

DR. ATWOOD, MISS BURNHAM

**Allergy.**

DR. HANSEN-PRÜSS, MISS BURNHAM

**Basal Metabolism.**

DR. JOHNSTON, MISS BURNHAM

**Physical Therapy.**

MISS GORDON

**Posture.**—Faulty posture, deviation of the spine, weak feet, corrective gymnastics.

MISS GORDON

## CURRICULUM

### FIRST YEAR

<i>Autumn Quarter</i>				<i>Winter Quarter</i>			
			Hours				Hours
	Lect. Class	Lab.	Total		Lect. Class	Lab.	Total
Anatomy and Physiology .....	49	63	112	Nursing Arts II ...	44	55	99
Chemistry .....	33	22	55	Bacteriology .....	22	22	44
History of Nursing	33		33	Elem. Materia Medica .....	22	11	33
Elem. Psych. ....	22		22	Nutrition, Foods, and Cookery .....	22	22	44
Introd. to Commun. Health .....	22		22	English .....	22		22
English .....	22		22		132	110	242
Nursing Arts I ....	22	11	33	Ward Practice .....	18	hours weekly	
Posture .....	3	8	11				
	<u>206</u>	<u>104</u>	<u>310</u>				

Physical Education 2 hours a week the first and second quarter.

*Spring Quarter**Summer Quarter*

Hours			
	Lect. Class	Lab.	Total
Nursing Arts III ..	33	33	66
Case Study .....	6	5	11
Physical Therapy ..	4	12	16
Adv. Materia Medica	33		33
Dietetic Therapy ...	44		44
	<hr/> 120	<hr/> 50	<hr/> 170
Ward Practice .....	30 hours weekly		

## SECOND YEAR

*Autumn Quarter**Winter Quarter*

Hours			Hours		
	Lect. Class	Total		Lect. Class	Total
Pathology .....	22	22	Gynecology .....	22	22
Medicine .....	33	33	Urology .....	22	22
Surgery .....	33	33	Special Therapeutics	22	22
Oper. Rm. Tech. ...	11	11	Communicable		
Orthopedics .....	22	22	Diseases .....	33	33
	<hr/> 121	<hr/> 121		<hr/> 99	<hr/> 99

*Spring Quarter**Summer Quarter*

Hours			Hours		
	Lect. Class	Total		Lect. Class	Total
Applied Psych. ...	22	22	Vacation .....	4 weeks	
Ear, Nose, & Throat	22	22	Ward Practice .....	8 hours daily	
Sociology .....	33	33			
	<hr/> 77	<hr/> 77			

## THIRD YEAR

*Autumn Quarter**Winter Quarter*

Hours			Hours		
	Lect., Class			Lect., Class	
Obstetrics .....	44		Psychiatry .....	33	
Pediatrics .....	44		Eye .....	11	
	<hr/> 88		Dermatology .....	11	
			Senior Demonstration	11	
				<hr/> 66	

*Spring Quarter**Summer Quarter*

Hours			Hours		
	Lect., Class			Lect., Class	
Professional			Vacation .....	4 weeks	
Adjustments .....	22		Ward Practice .....	8 hours daily	
Preventive Med. and					
Public Health .....	22				
Social Service .....	22				
	<hr/> 66				

### Clinical Experience After the First Six Months

Medical Wards .....	6	months
Surgical Wards .....	6½	months
Diet Kitchen .....	1½	months
Gynecological Wards .....	2	months
Operating Department .....	3	months
Out-Patient Department .....	1	month
Private Wards .....	1	month
Obstetrical Department .....	3	months
Pediatrics Department .....	3	months
<i>Total</i> .....	<hr/> 27	months

### SENIOR STUDENTS

Adams, Dorothy, *Junior College of Augusta, Georgia*, Augusta, Ga.  
 Alexander, Ruth, *Mitchell Junior College*, Pineville, N. C.  
 Applewhite, Ida Shaw, *Duke University*, A.B. 1936, Halifax, N. C.  
 Atzrodt, Rebecca, *Duke University*, Clarksburg, W. Va.  
 Barton, Ruth, *Greenville Woman's College, Furman University*, Greenville, S. C.  
 Bisanar, Lelia, *Appalachian State Teachers College*, Alexis, N. C.  
 Castleberry, Margaret, Orangeburg, S. C.  
 Cook, Betty Wood, *Blackstone College*, Franklin, Va.  
 Cothran, Mary Lillie, *Winthrop College*, Inman, S. C.  
 Crowell, Alucia, *Florida State College for Women*, Auburndale, Fla.  
 Gangle, Elsie, Baden, Pa.  
 Gordon, Nellie Elizabeth, Greenville, N. C.  
 Maxwell, Winifred, *Duke University*, Clarksburg, W. Va.  
 Miller, Carolyn, St. Petersburg, Fla.  
 Parrish, Marcella, *Campbell College*, Louisburg, N. C.  
 Perry, Mary Elizabeth, *Greenville Woman's College, Furman University*, Charleston, S. C.  
 Rabb, Iris, *Mars Hill College*, Marion, N. C.  
 Rearden, Laureen, *Winthrop College*, Graniteville, S. C.  
 Richards, Dorothy Eugenia, *Queens-Chicora College*, Rowland, N. C.  
 Sanford, Marian, Washington, D. C.  
 Seawell, Margaret, Chinquapin, N. C.  
 Shields, Lois, *Duke University*, Lewes, Del.

### JUNIOR STUDENTS

Allan, Margaret, Elberton, Ga.  
 Bagby, Virginia, *Teachers College*, Johnson City, Tenn.  
 Boone, Evelyn, Wilmington, N. C.  
 Brake, Thelma, Rocky Mount, N. C.  
 Bruffey, Jean, Lynchburg, Va.  
 Bryant, Carl, *Greenville Woman's College, Furman University*, Greenville, S. C.  
 Clay, Isa, *Montreat Junior College*, Roanoke, Va.  
 Cline, Helen, *Lenoir Rhyne College*, Concord, N. C.  
 Gandy, Virginia, *Coker College*, Society Hill, S. C.  
 Harloe, Eleanor, *Woman's College of North Carolina*, Southern Pines, N. C.  
 Hinshaw, Esther, *Duke University*, Winston-Salem, N. C.  
 Jones, Nancy, *Peace Junior College*, Franklin, N. C.  
 Makely, Antoinette, *Mitchell College*, Lenoir, N. C.  
 Malone, Ernestine, *University of South Carolina*, Columbia, S. C.  
 Morison, Polly, Asheville, N. C.  
 Painter, Isabelle, *Goucher College*, New Freedom, Pa.

Parker, Esther, *Greenville Woman's College, Furman University*, Sumter, S. C.  
 Paynter, Marcella, Kimberly, W. Va.  
 Ray, Dorothy, *Berea Academy*, Nantahala, N. C.  
 Steffens, Louise, Wilmington, N. C.  
 Wagner, Josephine, *East Tennessee State Teachers College*, Roanoke, Va.  
 Weaver, Martha, Weaverville, N. C.  
 Weeks, Charlotte, *St. Petersburg Junior College*, St. Petersburg, Fla.  
 Wilkinson, Elizabeth, *State Teachers, Farmville, Virginia*, Cumberland, Va.

### PRELIMINARY STUDENTS

Babb, Frances, *Greenville Woman's College, Furman University*, Princeton, S. C.  
 Barker, Ruth, Johnson City, Tenn.  
 Beckett, Anne, Tarpon Springs, Fla.  
 Bigler, Ouida, *Grove City College, Pa.*, A.B., 1938, Albemarle, N. C.  
 Brooke, Inez, *Averett College*, Poindexter, Va.  
 Bryant, Edith, *Elon College*, Elon College, N. C.  
 Bunch, Mary, *Woman's College of University of N. C.*, Asheboro, N. C.  
 Clawson, Jean Bratton, *Winthrop College*, Richburg, S. C.  
 Collins, Hallie Jo, *Duke University*, Coral Gables, Fla.  
 Darrough, Sara, *Mars Hill College*, Asheville, N. C.  
 Deaton, Dorothy, *Flora McDonald College*, Eagle Springs, N. C.  
 Dines, Nancy, *Pembroke College*, Hamden, Conn.  
 Dugger, Carlotta, *Fairfax Hall Junior College*, Waynesboro, Va.  
 Dulin, Margaret, Bowling Green, S. C.  
 Foard, Mary, *Mitchell College*, Statesville, N. C.  
 Freeman, Vernie, Poquoson, Va.  
 Gantt, Winifred, *Winthrop College*, A.B., 1931, Rock Hill, S. C.  
 Hartley, Lucy Dare, *Lees-McRae College*, Blowing Rock, N. C.  
 Henderson, Sarah, *Greenville Woman's College, Furman University*, Greenville, S. C.  
 Horton, Theresa, *Catawba College*, Salisbury, N. C.  
 Kale, Ella Mae, Asheville, N. C.  
 Latham, Daisy, Bethel, N. C.  
 Ledford, Rubye, *Appalachian State Teachers College*, Union Mills, S. C.  
 Lee, Miriam, Pax, W. Va.  
 Liles, Gladys, *Meredith College*, Goldsboro, N. C.  
 McCartney, Joan Carolyn, *University of Minnesota*, Minneapolis, Minn.  
 McCranie, Aline, *South Georgia College*, Douglas, Ga.  
 Mallory, Margaret, Charleston, W. Va.  
 Martin, Edrie, *Greensboro College*, Hillsboro, N. C.  
 Matheson, Deane, *Woman's College of University of N. C.*, Raeford, N. C.  
 Middleton, Kathryn, *Averett College*, Chase City, Va.  
 Miller, Frances, *State Teachers College, Boone, N. C.*, Boone, N. C.  
 Milton, Margaret, *Middle Georgia College*, Adel, Ga.  
 O'Neal, Christine, *Winthrop College*, Fairfax, S. C.  
 Reinhardt, Cynthia, *Meredith College*, Lincolnton, N. C.  
 Schwob, Ann Louise, *Florida State College for Women*, Orlando, Fla.  
 Sowers, Lucy, *State Teachers, Harrison, Virginia*, Floyd, Va.  
 Steigleman, Betty, Harrisburg, Pa.  
 Strawbridge, Margaret, *South Georgia College*, York, Pa.  
 Wade, Sarah, *Eastern Carolina Teachers College*, Morehead City, N. C.  
 Warren, Sue, *Limestone College*, Durham, N. C.  
 Whitener, Marion, *Limestone College*, Shelby, N. C.  
 Whitlock, Mary Jane, Rockingham, N. C.  
 Woodward, Frances, *Florida State College for Women*, Winter Park, Fla.  
 Young, Helen Rose, *Campbell College*, Princeton, N. C.

## DUKE UNIVERSITY SCHOOL OF NURSING GRADUATES

- Adams, Maude (Mrs. Percy White), Diploma 1938, Lynnhaven, Va.  
 Arnold, Aldine, Diploma 1933, Garfield Hospital, Washington, D. C.  
 Atkinson, Pauline (Mrs. J. A. Martin), Diploma 1937, Head Nurse, Duke Hospital.  
 Barbee, Sula, Diploma 1938, General Duty, Duke Hospital.  
 Beery, Anne, Diploma 1938, Senior Nurse, Duke Hospital.  
 Bell, Joyce (Mrs. Guy Hager), Diploma 1937, 821 Pearl St., Sharon, Pa.  
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 Blakely, Margie Dean, Diploma 1937, Private Duty, 10 Aycock Apt., Durham, N. C.  
 Boone, Nellie, Diploma 1936, Head Nurse, Emergency Hospital, Washington, D. C.  
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 Bryant, Hazel, Diploma 1937, Public Health, William and Mary College, Richmond, Va.  
 Cadle, Evelyn, Diploma 1936, B.S. 1938, Clinic Nurse, Duke Hospital.  
 Caldwell, Faire, Diploma 1934, Senior Nurse, Duke Hospital, University Apts., L-2A, Durham, N. C.  
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 Cobb, Zula, Diploma 1934, Private Duty, 11 Vance Apt., Durham, N. C.  
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 Corbett, Mary Elizabeth (Mrs. R. W. Postlethwaite), Diploma 1936, Private Duty, University Apts., D-2-E, Durham, N. C.  
 Cotter, Ethel, Diploma 1933, Operating Room Supervisor, Park View Hospital, Rocky Mount, N. C.  
 Cranford, Kathryn, Diploma 1934, Floor Supervisor, Orthopedic Hospital, Gastonia, N. C.  
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 Dunn, Dorothy, Diploma 1938, B.S. 1938, General Duty, Duke Hospital.  
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 Estes, Frances (Mrs. Robert Regan), Diploma 1937, B.S. 1938, 726 Napier Ave., Macon, Ga.  
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 Feagans, Hilda, Diploma 1935, General Duty, Veteran's Hospital, Roanoke, Va.  
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 Fox, June (Mrs. Harold Schiro), Diploma 1935, 3222 Burnette Ave., Cincinnati, Ohio.



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- Gibson, Jean, Diploma 1938, General Duty, Duke Hospital.
- Gillam, Hazel, Diploma 1937, Operating Room Nurse, Duke Hospital.
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- Green, Mary (Mrs. D. W. Lester), Diploma 1933, 4065 Mississippi Ave., San Diego, Calif.
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- High, Christine, Diploma 1933, Public Health, Williamston, N. C.
- Hines, Margaret L., Diploma 1934, Public Health, McLeansville, N. C.
- Hodges, Charlotte (Mrs. Dan Jones), Diploma 1937, B.S. 1938, Reidsville, N. C.
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- Hunter, Frances, Diploma 1936, Public Health, Marlinton, W. Va.
- Jarret, Sara, Diploma 1938, B.S. 1938, Senior Nurse, Duke Hospital.
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- King, Emily, Diploma 1936, Public Health, County Health Dept., Lenoir, N. C.
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- McDavid, Virginia, Diploma 1937, B.S. 1938, Senior Nurse, University Apts., L-3-C, Durham, N. C.
- McLaughlin, Louise, Diploma 1935, Private Duty, 10 Aycock Apt., Durham, N. C.
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- Miller, Eleanor, Diploma 1934, General Duty, Veteran's Hospital, Brookside, N. Y.
- Moore, Elizabeth, Diploma 1934, B.S. 1938, Forest City, N. C.
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- Olsen, Lurline, Diploma 1938, B.S. 1938, Private Duty, Erwin Apt., Durham, N. C.
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- Parks, Virda (Mrs. Jim Marshall), Diploma 1936, Private Duty, Winston-Salem, N. C.
- Peele, Margaret, A.B. *Greensboro College* 1932, Diploma 1937, B.S. 1937, Senior Nurse, Duke Hospital.
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- Pope, Virginia, Diploma 1938, B.S. 1938, General Duty, Duke Hospital.
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- Smith, Hilda, Diploma 1938, General Duty, Duke Hospital.
- Strother, Elizabeth, Diploma 1936, Nurses' Cottage No. 2, Veterans' Administration Facility, Dayton, Ohio.
- Sugg, Norma, Diploma 1934, Anesthetist, University of Pennsylvania, Philadelphia, Pa.
- Thomas, Vera, Diploma 1935, Head Nurse, Duke Hospital.
- Thompson, Elizabeth (Mrs. George E. Pope), Diploma 1936, Clinic Nurse, 710 E. Trinity Ave., Durham, N. C.
- Thrower, Emma (Mrs. Vincent Doolittle), Diploma 1933, Rockingham, N. C.
- Tillett, Grace (Mrs. John Wiggins), Diploma 1933, Public Health Nurse, Durham, N. C.
- Umbel, Waneta, B.S. *West Va. University* 1935, Diploma 1938, B.S. 1938, General Duty, Duke Hospital.
- Ward, Jessie (Mrs. L. C. Roberts), Diploma 1933, Clinic Nurse, 606 Buchanan Blvd., Durham, N. C.
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- Wehunt, Rosabelle, Diploma 1936, Head Nurse, Duke Hospital.
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- Wilkinson, Dorothy, Diploma 1936, Private Duty, University Apts., Durham, N. C.
- Williams, Mary, Diploma 1936, Box 402, Greensboro, N. C.
- Wilson, Helen, Diploma 1933, Public Health Nurse, Public Health Dept., Lumberton, N. C.
- Wilson, Sarah, Diploma 1938, Senior Nurse, Duke Hospital.
- Wooten, Julia, Diploma 1937, Clinic Nurse, University Apts., L-3-C, Durham, N. C.
- Yarborough, Pearl, Diploma 1933, Private Duty, Box 1112, Durham, N. C.
- Yates, Virginia (Mrs. C. W. Camalier, Jr.), Diploma 1936, Clinic Nurse, Duke Hospital.
- Zirkle, Margaret (Mrs. Herbert Collier), Diploma 1936, 3319 Woodrow Ave., Richmond, Va.



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VOLUME 11

February, 1939

NUMBER 2

# BULLETIN OF DUKE UNIVERSITY

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*The School of Forestry*

1939



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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Published by Duke University in January, February, March, April, May, and June. Entered as Second Class Matter March 25, 1929, at the Post Office at Durham, N. C., Under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF FORESTRY



ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA  
1939





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## UNIVERSITY CALENDAR

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1939

- June 2. Friday, 8:00 A.M.—Field work begins in Surveying (C. E. S110) required of students entering School of Forestry.
- June 26. Monday, 8:00 A.M.—Field work begins in Forest Surveying (For. S150).
- July 4. Tuesday—Independence Day: a holiday.
- Aug. 1. Tuesday, 8:00 A.M.—Field work begins in Forest Mensuration (For. S151).
- Sept. 18. Monday, 8:30 A.M.-12:30 P.M.—Orientation examination, School of Forestry.
- Sept. 19. Tuesday, 8:30 A.M.-12:30 P.M.—Orientation examination, School of Forestry.
- Sept. 20. Wednesday, 9:00 A.M.-12:30 P.M.; 2:00 P.M.-5:00 P.M.—Registration of students in the School of Forestry.
- Sept. 21. Thursday—Instruction begins in the School of Forestry.
- Sept. 21-23. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of students in the Graduate School.
- Oct. 16. Monday—Last day for submitting thesis subjects for M.F. degree.
- Nov. 11. Saturday—Armistice Day.
- Nov. 30. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Monday—Duke University Day.
- Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

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- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17. Wednesday—Mid-year examinations begin.
- Jan. 31. Wednesday, 9:00 A.M.-12:30 P.M.; 2:00 P.M.-5:00 P.M.—Registration of students in the School of Forestry.
- Feb. 1. Thursday—Second semester begins.
- March 23. Saturday, 1:00 P.M.—Spring vacation begins. School of Forestry field trip begins.
- April 1. Monday, 8:00 A.M.—Instruction is resumed.

- April 8. Monday, 8:00 A.M.—School of Forestry field trip ends.
- May 15. Wednesday—Last day for submitting M.F. theses.
- May 17. Friday—Final examinations begin.
- June 1. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

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KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D. <i>Dean of the School of Forestry</i>	908 West Markham Avenue

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SCHUMACHER, FRANCIS XAVIER, B.S. <i>Professor of Forestry</i>	6 Sylvan Road
THOMSON, ROY BERTRAND, B.S., M.F. <i>Associate Professor of Forest Economics</i>	University Apts., K-1-A
WACKERMAN, ALBERT EDWARD, B.S., M.F. <i>Professor of Forest Utilization</i>	110 Forest Wood Drive
WOLF, FREDERICK ADOLPHUS, A.B., A.M., Ph.D. <i>Professor of Botany</i>	924 Urban Avenue

### DUKE FOREST STAFF

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BLADES, CARLTON J., B.S., M.F. <i>Forest Assistant</i>	204 North Driver Avenue
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CLAPP, WREATH <i>Bookkeeper</i>	219 Dacian Avenue

### DUKE ARBORETUM

HARRAR, ELLWOOD SCOTT, B.S., M.S., Ph.D. <i>In Charge</i>	1402 Alabama Avenue
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### ASSISTANTS IN SCHOOL ADMINISTRATION

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PARKER, LUCILLE, A.B. <i>Statistical Clerk</i>	103 Erwin Apartments
CARROW, MRS. FRANCES <i>Clerk</i>	1811½ Pettigrew Street

# FORESTRY IN DUKE UNIVERSITY

## GENERAL STATEMENT

Duke University, located at Durham, North Carolina, comprises Trinity College, the Woman's College, the Graduate School of Arts and Sciences, and the professional schools of Forestry, Law, Medicine, Nursing, and Religion. Nearly every state of the Union and several nations are represented in the student body of more than thirty-four hundred, not including the enrollment in the Summer School.

The University goes back in its origin to 1838, when Union Institute was founded in Randolph County by the Methodists and Friends. In 1851 the institution became Normal College, and was one of the first schools in America for the training of teachers. In 1859 the name was changed to Trinity College and so continued until 1924, when the College became a part of Duke University.

By virtue of an indenture of trust, executed December 11, 1924, by James Buchanan Duke, a great benefaction was placed at the disposal of humanity by providing for hospitalization, church work in rural communities, and education. The principal feature of the educational provision was the creation of Duke University. Previous to the indenture, Mr. Duke himself, his father Washington Duke, and his brother Benjamin N. Duke had for many years been the chief benefactors of Trinity College.

The University occupies two campuses. The Woman's College campus, with its 108 acres, was formerly the campus of Trinity College. About a mile to the west are the new units of the University. The new campus, totaling 467 acres, also known as the West Campus, was first occupied in September, 1930.

Forestry in Duke University began early in 1931 when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

A pre-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degree. Master of Forestry, is offered in the School of Forestry, and is open to all graduates of the pre-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward these two degrees in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

### EDUCATIONAL FACILITIES

The School of Forestry is located in the Biology Building along with the Departments of Botany and Zoology. The Biology Building contains classrooms, laboratories, offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber testing machine. A forest soils laboratory is equipped with an all-electric, 12-unit Kjeldahl digestion and distillation apparatus for determining organic and ammoniacal nitrogen, a moisture equivalent and subsoil centrifuge, drying ovens, muffle furnace, sand-sieve shaker, soil-suspension shaker, Parr apparatus for total carbon analysis, potentiometric apparatus, and many pieces of lesser equipment.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with



American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Large greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

### THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for timber growing. The total area of the Forest proper, exclusive of the University campus, was 4,696 acres in 1931.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management on a practical and economic basis.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where investigations may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and investigative, recorded annually, it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, in that most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus since it was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New Hope Creek divisions can be reached by automobile in ten to twenty minutes. At few other places in America can be found provision for forestry training and research which include the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Although the Forest has been but recently organized, considerable progress has been made toward carrying out the principal objectives recognized at the outset.

Most of the 1,286 acres of open land is, or until recently has been, cultivated. Such of the open land as is not restocking naturally to forest trees is being planted. Here students have an opportunity to study at first hand the results of many experimental plantations prepared for them in advance. Arbitrarily by mixing species and varying the spacing between the trees in the plantations now being made, the foundation is laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use in this region, and the survival and relative rates of growth of the different species of trees.

Over sixty permanent sample plots, ranging in size from one-tenth acre to one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. More plots are being established as rapidly as time and funds will permit. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The work of putting the Forest under intensive management is well under way. A complete inventory of the Forest has been made, and tabulations showing the present volume and annual growth of each separate timber stand are at hand. A forest type and timber stand map for each of the three divisions has also been completed. Each division has been subdivided into permanent compartments, and recommendations for the silvicultural treatment of the separate stands in each compartment, to be embodied in a management plan, are being formulated. Cutting operations within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded such operations will be increased. To date, approximately 500 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing

to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over ten thousand picnickers, hikers, and horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, the student has an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages, and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research has already been started on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

### THE ARBORETUM

A feature which will be of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of Mr. W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before

the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

## SCHOLARSHIPS AND FELLOWSHIPS IN FORESTRY

A limited number of graduate scholarships and fellowships are available to men who offer promise of becoming leaders in the forestry profession. These will be available to men of high character and marked scholastic ability, who merit financial aid, as judged by their education, experience, and personal references.

The annual stipend of these scholarships and fellowships ranges from two hundred and fifty dollars (\$250) to seven hundred and fifty dollars (\$750); the exact amount awarded to each successful applicant will vary with his qualifications. Holders of scholarships and fellowships will be expected to pay the tuition fee and such additional fees as are regularly required.

The following arrangements apply to the scholarships and fellowships:

1. The applicant must have received a degree either from a professional school of forestry of good standing or must be a graduate of a recognized college or university. Candidates not graduates of schools of forestry must have had the major work for their degree in botany or soil science and in the allied basic sciences. In addition, he must have reasonably high scholarship to be admitted to full standing in the School of Forestry or the Graduate School of Arts and Sciences. In general, preference will be given to men who have already obtained technical or professional training as represented by a degree from an accredited school of forestry and who have a reading knowledge of French and German.

2. It is highly desirable that a candidate for a scholarship or fellowship state in his application as specifically as possible the problem which he wishes to study. The definite selection of a suitable problem—one that is specific and affords training both in fundamentals and in technique—is very helpful to the committee on awards.

3. Holders of scholarships and fellowships may become candidates for the Master of Forestry, Master of Arts, or Doctor of Philosophy degrees when they have met the requirements for admission to candidacy for these degrees.



4. Holders of scholarships and fellowships shall devote at least nine consecutive months to an approved program of work in forestry. While in residence they will be expected to do a limited amount of assisting.

5. Application blanks for scholarships and fellowships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant it should be returned to the above address, and *must be accompanied by an official transcript of record* showing college or university credits. The application and transcript must be filed not later than March 1 for the following academic year. In case vacancies occur, applications submitted on a later date will be considered.

## REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality-points as hours.<sup>1</sup>

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: Soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, he will be required to take a comprehensive examination in the following branches of forestry: silvics, silviculture, forest mensuration, forest management, utilization, wood anatomy and properties, forest economics, and forest policy. The purpose of this examination is to aid in determining the needs of individual students.

<sup>1</sup> Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality-points as follows: A, 3 points; B, 2 points; C, 1 point; D, no points; and F, no credit and —1 point.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer School, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

## REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer School. In addition to the Summer School work a total of not less than sixty semester-hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will be required of all candidates for the M.F. degree:

### SUMMER SCHOOL

	<i>S.H.</i>
Plane Surveying (C. E. S110).....	3
Forest Surveying (F. S150).....	5
Forest Mensuration (F. S151).....	4

### FIRST YEAR

<i>First Semester</i>	<i>S.H.</i>	<i>Second Semester</i>	<i>S.H.</i>
Harvesting Forest Products (F. 211) .....	3	Forest Products Industries (F. 212) .....	3
Sampling Methods (F. 251).....	2	Forest Pathology (F. 224).....	4
Dendrology (F. 253).....	4	Forest Entomology (F. 232).....	3
Wood Anatomy & Properties (F. 259) .....	3	Forest Mensuration (F. 252).....	2
Forest Soils (F. 261).....	3	Silvics (F. 264).....	3
Forest Protection (F. 273).....	2	Elective .....	..

### SECOND YEAR

Silviculture (F. 265).....	5	Forest Policy (F. 276).....	2
Forest Economics (F. 279).....	3	Forest Valuation (F. 282).....	3
Forest Management (F. 281).....	4	Seminar (F. 292).....	2
Thesis .....	2	Thesis .....	2
Elective .....	..	Elective .....	..

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 15 three copies of a thesis, type-written and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

## FORESTRY IN THE GRADUATE SCHOOL

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

### REQUIREMENTS FOR ADMISSION

#### GENERAL REQUIREMENTS

Students who have received a Bachelor's degree upon the completion of a four-year undergraduate curriculum at a college of sufficiently high standing may be admitted to certain courses in the Graduate School of Arts and Sciences. The department or division concerned will determine whether a student is prepared to take any particular course. *Admission to graduate courses does not necessarily imply admission to candidacy for a degree.* A candidate for admission as a graduate student should present satisfactory evidence that he has received a Bachelor's degree from a college or university which is a member of the Association of Colleges and Secondary Schools of the Southern States or of one of the similar associations in other sections of the country (provided that the degree must have been conferred after the admission of the college or university to membership in said association); or from a North Carolina college whose Bachelor of Arts' or other Bachelor's degree is accepted by the State Department of Education as the basis for issuing the high-school or primary certificate of Class A. A degree from an institution outside of the state of North Carolina, not provided for above, may be accepted when an investigation in the individual case shows that qualifications are satisfactory.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts.

No graduate student may register in one academic year for more than twenty-four semester hours of work and a thesis.

#### SPECIAL REQUIREMENTS IN FORESTRY

In addition to the above general requirements, the following special conditions will influence the acceptance of students for graduate study in forestry. The student must have received a degree from a professional school of forestry of recognized standing or from an approved college



or university. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them.

The Forestry Staff will determine whether a student is qualified to pursue graduate study in any of the special fields of forestry in which work is available.

## GENERAL REQUIREMENTS FOR DEGREES

The following general requirements of the Graduate School apply to candidates for the Master of Arts and Doctor of Philosophy degrees:

### ADMISSION TO CANDIDACY FOR A DEGREE

A graduate student who desires to be accepted as a candidate for a degree should file with the Dean of the Graduate School an official transcript of the record of his undergraduate work and also of any graduate courses he may have completed. He should also confer with the chairman of the department in which he desires to take his major work. Applications for admission to candidacy for the degree of Master of Arts should be made at the beginning of the first year of graduate work, and for the degree of Doctor of Philosophy early in the second year of graduate work. Before receiving recognition as a candidate for a degree, the student must satisfy both the general requirements of the Graduate School and the special requirements of the department in which he is taking his major work.

### THE DEGREE OF MASTER OF ARTS

Candidates for the degree of Master of Arts are required to have a reading knowledge of two foreign languages, evidenced by examination or by credit obtained for at least six semester hours of college work in each. If this requirement has not been satisfied before admission to candidacy for the degree, the required foreign language work must be completed before the degree is conferred and will not be counted for credit toward the degree. The two foreign languages offered must be acceptable to the department in which the candidate is taking his major work. Twice a year at stated times the language examinations will occur. The French examinations will be given the first week in November and the first week in March, while the German examinations will be given the second week in November and the second week in March.

To obtain the degree of Master of Arts a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject in which the minimum requirement is twelve semester hours and the thesis. [Before selecting his major in a department, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work.] A candidate must take six semester hours of graduate work in a minor subject approved by the major department, and the remaining six semester hours in the major or minor subjects or in a department approved by the major department and by the Graduate Council. No undergraduate course may be credited toward the degree of Master of Arts.

### MINIMUM RESIDENCE REQUIREMENT

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. In the case of graduate students who take all the work for the Master's degree in the Summer School, the minimum residence requirement is five summer terms of six weeks each. All the work offered for the Master's degree must be completed within a period of six years.

### THESIS FOR THE MASTER'S DEGREE

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library. Each candidate is required to appear before the committee for a final examination. The oral portion of the examination will be approximately one and one-half hours in length and will be on the thesis and its related field; the length of the examination to be determined by the department with due consideration to the needs of the candidate and the subject matter of the thesis. The chairman of the committee will inform the other members of the committee of the character and scope of the examination.

### CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research completed elsewhere. Such credit shall not shorten the minimum period of residence required at Duke University.

### THE DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School or the chairman of the department concerned. He will then be advised as to the possibility of obtaining the necessary instruction and supervision of research in the desired field.

The Council on Graduate Instruction has adopted the following regulations governing the conferring of the degree of Doctor of Philosophy:

1. *The Degree.* The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

2. *Residence Requirements.* The normal period of resident graduate study, after the general requirements of admission to the Graduate School have been satisfied, is not less than three academic years. The candidate will be required to spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake. Credit for one year of work done in summer school sessions may be given with the approval of the Graduate Council and of the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

3. *Application for Candidacy for the Ph.D. Degree.* A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must obtain its approval and that of the Graduate Council. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

4. *Preliminary Examination.* Toward the end of the second full year of graduate work (or in special cases at the beginning of the third year), a preliminary examination of each candidate will be held covering the general field of his major subject. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both, as the committee may determine. A student who passes this examination will be recognized as a candidate for the Ph.D. degree. At the discretion of a candidate's committee, the examination on his minor subject or subjects may be held at the time of his preliminary examination instead of at the time of his final examination.

5. *Program of Study.* The program of study of an applicant for the Ph.D. degree is subject to the approval of the Graduate Council and of the committee provided for in Section 3 above. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual students seem to require it, the Graduate Council may permit a major and minor to be taken in the same department.

6. *Foreign Language Requirements.* A reading knowledge of French and German will ordinarily be required. A substitution for one of these languages may be made, however, by the consent of the Graduate Council and of the department in which a student takes his major work. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work, and should qualify in both by the end of the second year of his graduate work. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.

7. *Thesis.* The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examinations for his degree. The subject must receive the written approval of the chairman of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written. The thesis must be completed to the satisfaction of the professor under whom it is written, and four typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before May 1, if the student desires to be examined on the thesis in the same academic year. Two of the copies, the original and a carbon copy, are placed in the University Library.

The title-page must be approved by the major department and by the Dean of the Graduate School.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. Copies of the published thesis should be deposited in the Graduate School Office as provided by regulations of the Graduate Council. The degree will not be conferred until publication of the thesis, in approved form, within three years, has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

8. *Final Examination.* The final examination on the thesis and on the subject matter of the major and minor fields will be oral. The examination on both thesis and major and minor work will be held at the same time unless otherwise arranged by special permission of the Graduate Council.

## SPECIAL REQUIREMENTS FOR DEGREES IN FORESTRY

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management, and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Ph.D degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work the student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.



## COURSES AND SUBJECTS OF INSTRUCTION

*With the exception of the summer school courses, odd-numbered courses are offered in the autumn semester, and even-numbered courses are offered in the spring semester.*

### IN THE SUMMER SCHOOL

**C.E. S110. Plane Surveying.**—A special section of C.E. S10 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day, beginning June 2. 3 s.h.*

PROFESSORS BIRD AND W. H. HALL AND MR. WILLIAMS

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisites: Civil Engineering, S110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 26. 5 s.h. (w)*

ASSOCIATE PROFESSOR MAUGHAN

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *Four weeks, eight hours a day, beginning August 1. 4 s.h. (w)*

PROFESSOR SCHUMACHER

### FOR SENIORS AND GRADUATES

**211. Harvesting Forest Products.**—Methods of harvesting and transporting to utilization plants all products obtained from forests, including saw logs, pulpwood, poles, ties, stave and veneer bolts, naval stores, distillation wood, and other commercial commodities, with emphasis on comparative cost determinations and the application of methods best adapted to managed forests in important forest regions of North America. *3 s.h. (w)*

PROFESSOR WACKERMAN

**212. Forest Products Industries.**—Preparation, manufacture, and use of tree products for all purposes including lumber, paper, naval stores, veneer, cooperage, boxes, distillation, and other specialized products with emphasis on methods of manufacturing and kinds of wood required for various commodities. Inspection of typical forest operations and forest products manufacturing plants in the South during two weeks of spring semester. Prerequisite: Forestry 211 or equivalent. *3 s.h. (w)*

PROFESSOR WACKERMAN

**213. Seasoning and Preservation of Wood.**—Principles of seasoning lumber and other forest products by air drying and kiln drying, types of kilns and their operation; principles, methods, and materials used in treating wood to increase its durability. Prerequisite: Forestry 259 or equivalent. *3 s.h. (w)*

PROFESSOR WACKERMAN

**214. Marketing Forest Products.**—Methods of selling and distributing timber, lumber, and other forest products in domestic and foreign trade; transportation methods; promotional activities of trade associations; competition between producing regions for markets and problems arising from the development of wood substitutes. Prerequisites: Forestry 211 and 212, or equivalents. *3 s.h. (w)*

PROFESSOR WACKERMAN

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. **4 s.h. (w)**

PROFESSOR WOLF

**232. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. **3 s.h. (w)**

PROFESSOR BEAL

**235. Forest Game Management.**—Characteristics and life histories of forest animals; interrelationship between animals and forests; management of forest animals for revenue; control of noxious species. **3 s.h. (w)**

PROFESSOR BEAL

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. **2 s.h. (w)**

PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. **2 s.h. (w)**

PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. **4 s.h. (w)**

ASSOCIATE PROFESSOR HARRAR

**256. Wood Pulp and Pulp Products.**—Characteristics of pulp and paper fibres; processes employed in pulp manufacture; methods of refining and testing pulps; theory and practice of bleaching and hydration; the manufacture of papers and other cellulose derivatives. Prerequisites: Forestry 212 and 259, or equivalents. **3 s.h. (w)**

ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. **5 s.h. (w)**

PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. **3 s.h. (w)**

ASSOCIATE PROFESSOR HARRAR

**260. Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisite: Physics 1 and Forestry 259, or equivalents. **3 s.h. (w)**

ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. **3 s.h. (w)**

ASSISTANT PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. (w)  
PROFESSOR KORSTIAN

**265. Theory and Practice of Silviculture.**—Principles governing natural regeneration and treatment of forest stands and their application to main commercial forest species, types, and regions of temperate North America; reproduction methods, intermediate cuttings, cultural operations, and silvicultural plans. Field practice includes marking timber for various kinds of cuttings, cultural treatments, preparation of plans for silvicultural treatment of forests, and study of intensively managed forests. Prerequisite: Forestry 264 or equivalent. 5 s.h. (w)  
PROFESSOR KORSTIAN

**266. Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w)  
PROFESSOR KORSTIAN

**273. Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wild life; causes of forest fires and their prevention; presuppression activities; fire suppression; fire control costs and standards; fire plans. 2 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**276. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**279. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h. (w)  
ASSOCIATE PROFESSOR THOMSON

**281. Forest Management.**—Principles of organizing forest properties for systematic management including surveys, inventories, subdivision, and preparation of management plans for control of operations; principles of forest regulation, actual and normal forests, rotations, cutting cycles, and methods of regulating the cut for sustained yield. Prerequisites: Forestry S150, S151, 251, and 252, or equivalents. 4 s.h. (w)  
ASSOCIATE PROFESSOR MAUGHAN

**282. Forest Valuation.**—Principles involved in appraising value of forests as business enterprises; valuation of land and timber, soil rent and forest rent theories, cost values, market values and capital values, profit, and rate earned; appraisal of stumpage values and damage appraisals; financial aspects of sustained yield management compared with destructive logging. Prerequisite: Forestry 281 or equivalent. 3 s.h. (w)  
ASSOCIATE PROFESSOR MAUGHAN

**284. Forest Improvements.**—Principles involved in the location and design of improvements required for administration of forest properties and forest operations, such as roads, trails, bridges, lookout towers, and telephone lines; effect of forest operations upon expenditures for improvements; cost analysis and planning for minimum cost. Prerequisite: Forestry S150 or equivalent. 3 s.h. (w)  
ASSOCIATE PROFESSOR MAUGHAN



**292. Seminar.**—Interrelation of various branches of forestry in their application to forestry problems; assigned topics with special reference to current forestry activities. 2 s.h. (w)

THE STAFF

#### FOR GRADUATES

**323-324. Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged.

PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged.

ASSISTANT PROFESSOR KRAMER

**354. Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. (w)

ASSISTANT PROFESSOR COILE

**356. Advanced Forest Economics.**—Analysis and measurement of economic forces in forestry; advanced study and analysis of forestry problems which may be solved by the application of the principles of economics. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h. (w)

ASSOCIATE PROFESSOR THOMSON

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

ASSISTANT PROFESSOR COILE

c. **Silviculture.**—Prerequisite: Forestry 265 or equivalent.

PROFESSOR KORSTIAN

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents.

ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisite: Forestry 259 and 260, or equivalents.

ASSOCIATE PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 232 or equivalent.

PROFESSOR BEAL

i. **Forest Utilization.**—Prerequisites: Forest 211 and 212, or equivalents.

PROFESSOR WACKERMAN

## FEES AND EXPENSES

The following tables show the general fees and charges collected from all students and the special fees collected from those taking laboratory courses. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester .....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

For further information concerning room-rent, see below.

### SPECIAL FEES

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research in the summer under direction of a member of the Faculty. Special laboratory and materials fees in forestry are as follows:

Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	\$2.50
Forestry 261, 351, 352, 354, 357b, and 358b.....	5.00

### TRANSCRIPTS

A student desiring to transfer from Duke University to another institution is entitled to one transcript of his record. A charge of one dollar is made for each additional copy.

### PAYMENTS TO FELLOWS AND SCHOLARS

Payments by the University of stipends to fellows and scholars are made in four installments, on November 25, January 25, March 25, and May 25. Fellows and scholars are required to pay the regular tuition fee and such additional fees as are ordinarily required of graduate students.

### ROOMS AND CONDITIONS OF RENTING THEM

#### ROOM-RENT FOR MEN OF DUKE UNIVERSITY

West Campus, per semester.....	\$50.00, \$62.50, and \$75.00
East Campus, per semester.....	\$30.00 and \$50.00

All graduate courses are given on the West Campus.

Rooms are reserved only for students who have been officially accepted by the University. They are rented for no shorter period than one semester. The occupancy of a room for a period of less than one semester will cost the student \$1.00 each day unless the occupant makes the necessary arrangements with the Director of the Business Division before occupying the room. A room deposit of \$5.00 is required of each applicant for admission. The fee is deducted from the room charges at the time of registration for the full semester. The reservation fee will be refunded to any applicant not accepted by the University provided the official receipt for the fee, given to all paying it, is presented either in person or by letter to the Treasurer's Office, but students who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before August 1.

A resident student who wishes to retain his room for the succeeding year must first pay a reservation fee of \$5.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is strictly forbidden.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

### DORMITORIES FOR MEN

On the West Campus there are three groups of dormitories, Craven, Crowell, and Kilgo. Each group forms a quadrangle enclosing a court. Certain sections are reserved especially for the use of graduate students.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls a coffee shop is operated for the convenience of students and visitors.

## ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a graduate student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum cost, while all charges made by the University have been kept low. Incidental expenses naturally depend upon the tastes and habits of the individual. The following table gives the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$200.00	\$200.00	\$200.00
Matriculation .....	50.00	50.00	50.00
Room-rent .....	60.00	100.00	150.00
Board .....	225.00	225.00	225.00
Laundry .....	20.00	25.00	30.00
Books .....	22.50	30.00	45.00
Library Fee .....	10.00	10.00	10.00
Athletic Fee .....	10.00	10.00	10.00
Damage Fee .....	1.00	1.00	1.00
Medical Fee .....	10.00	10.00	10.00
<i>Total</i> .....	<u>\$608.50</u>	<u>\$661.00</u>	<u>\$731.00</u>

## ENROLLMENT, 1938-39

### REGULAR STUDENTS IN THE SCHOOL OF FORESTRY

Adman, Andrew George.....	Waynesboro, Pa.....	1701 Erwin Road B.S.F., North Carolina State College, 1936
Andrews, Leslie Kearns.....	Mt. Gilead, N. C.....	Duke University B.S.F., North Carolina State College, 1936
Bethel, James Samuel.....	Roy, Wash.....	201 Jones Street B.S.F., University of Washington, 1937
Boggess, William Randolph.....	Oakvale, W. Va.....	Rigsbee Road A.B., Concord State Teachers College, 1933
Carlton, John Buford.....	Hartwell, Ga.....	1013 Broad Street B.S.F., University of Georgia, 1937
Chisman, Henry Harmon.....	Carnegie, Pa.....	2121 Pettigrew Street B.S., Pennsylvania State College, 1932
Haines, Harry Caum.....	Elkhart, Ind.....	704 Buchanan Boulevard B.S.F., Purdue University, 1936
Jones, William Curry, Jr.....	Chapman, Ala....	708 Buchanan Boulevard A.B., Birmingham-Southern College, 1938
Miller, Ira Malcolm.....	Brooklyn, N. Y.....	A-209 A.B., Emory University, 1938
Morgan, Kenneth James.....	Albany, N. Y.....	1013 Broad Street B.S., Cornell University, 1934
Morrison, Alfred Warren.....	Knoxville, Tenn.....	116 Market Street A.B., University of Tennessee, 1938
Owens, William Robert, Jr.....	Covington, Va.....	C-202 B.S., Duke University, 1938
Riley, Madison Monroe.....	Raleigh, N. C.....	Raleigh, N. C. B.S.F., North Carolina State College, 1933
Rosendahl, Russell Otto.....	St. Paul, Minn....	704 Buchanan Boulevard B.S.F., University of Minnesota, 1936
Scarff, James Griffith.....	San Pedro de Macoris, Domin. Rep.,	A-209 A.B., Yale University, 1938
Scott, Howard Reynolds.....	Athens, Ga.....	University Apts., M-1-B B.S.F., University of Georgia, 1936
Smith, Ivan Wade.....	Hendersonville, N. C....	204 N. Driver Ave. B.S.F., North Carolina State College, 1938
Watkins, Virgil Gray.....	Kent's Store, Va.....	810 Second Street B.S., University of Virginia, 1937
Wellwood, Robert William.....	Victoria, B. C., Canada.	704 Buchanan Blvd. B.A. Sc., University of British Columbia, 1935
Wright, Thomas George.....	Warren, Pa.....	1115 Chapel Hill Street B.S.F., Pennsylvania State College, 1937
Total.....		20

### SPECIAL STUDENT IN THE SCHOOL OF FORESTRY

Wang, Yen-chieh .....	Peiping, China....	704 Buchanan Boulevard B.S., Tsing Hua University, 1929; M.S., Cornell University, 1936
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**PRE-FORESTRY SENIORS IN THE SCHOOL OF FORESTRY**

Bigger, William Parker.....	Pyengyang, Korea, Japan.....	102 Epworth
Crumpacker, William Johnson....	Durham, N. C.....	617 Shepherd Street
Total.....		2

**STUDENTS OF FORESTRY IN THE GRADUATE SCHOOL OF ARTS AND SCIENCES**

Bethel, James Samuel.....	Roy, Wash.....	201 Jones Street
B.S.F., University of Washington, 1937		
Merrick, Gordon Danforth.....	Tucson, Ariz.....	918 Urban Avenue
B.S., University of Chicago, 1931		
Toole, Eben Richard.....	Lanham, Md.....	704 Buchanan Boulevard
B.S.F., New York State College of Forestry, 1935; M.A., Duke University, 1938		
Wang, Yen-chieh .....	Peiping, China....	704 Buchanan Boulevard
B.S., Tsing Hua University, 1929; M.S., Cornell University, 1936		
Total.....		4

**INSTITUTIONS REPRESENTED**

Birmingham-Southern College....	1	University of British Columbia....	1
Concord State Teachers College...	1	University of Chicago.....	1
Cornell University .....	2	University of Georgia.....	2
Duke University .....	2	University of Minnesota.....	1
Emory University .....	1	University of Tennessee.....	1
New York State College of Forestry .....	1	University of Virginia.....	1
North Carolina State College.....	4	University of Washington.....	1
Pennsylvania State College.....	2	Yale University .....	1
Purdue University .....	1	Total.....	18
Tsing Hua University.....	1		

**GEOGRAPHICAL DISTRIBUTION****UNITED STATES**

Alabama .....	1	Minnesota .....	1
Arizona .....	1	Pennsylvania .....	3
Georgia .....	2	Tennessee .....	1
Indiana .....	1	Virginia .....	2
New York .....	2	Washington .....	1
North Carolina .....	4	West Virginia .....	1
Maryland .....	1	Total.....	13

**FOREIGN COUNTRIES**

Canada .....	1	Japan .....	1
China .....	1	Total.....	4
Dominican Republic .....	1		

**..GENERAL SUMMARY**

Regular students in the School of Forestry.....	20
Special student in the School of Forestry.....	1
Pre-forestry Seniors in the School of Forestry.....	2
Students of forestry in the Graduate School of Arts and Sciences.....	4
Total Enrollment.....	27
Total number of institutions represented.....	18
Total number of states represented.....	13
Total number of foreign countries represented.....	4









VOLUME 11

February, 1939

NUMBER 2-A

# BULLETIN OF DUKE UNIVERSITY

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*The School of Medicine*

1939



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

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Published by Duke University in January, February, March, April, May, and June. Entered as Second Class Matter March 25, 1929, at the Post Office at Durham, N. C., Under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF MEDICINE



1939

DURHAM, NORTH CAROLINA

1939

## FOREWORD

This bulletin is issued for prospective medical students. Admissions into any class are made only on the understanding that every decision of the Executive Committee shall apply to all students, even though it is made subsequently to their enrollment in the School. At frequent intervals the Executive Committee reviews the records of all students, and those whose progress has been unsatisfactory may be required to leave the School. ONLY THOSE WILL BE ADVANCED WHO, IN THE OPINION OF THE EXECUTIVE COMMITTEE, GIVE PROMISE OF BEING A CREDIT TO THEMSELVES AND TO THE SCHOOL. Students who wish to study at other medical schools during one or more quarters must have their programs approved, in advance, by the Curriculum Committee and, on their return, must present evidence that they have completed successfully work comparable to that of the curriculum during the quarters in which they were away.

# 1939

JANUARY	APRIL	JULY	OCTOBER
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## SCHOOL OF MEDICINE CALENDAR, 1939-1940

### 1939

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|--------------|---|
| Jan.         | 3. Tuesday—Registration of students, and Winter Quarter begins.                             |
| March        | 18. Saturday—Winter Quarter ends.   |
| March        | 27. Monday—Registration of students, and Spring Quarter begins.                             |
| April        | 10. Easter Monday: a holiday.   |
| June         | 5. Monday—Commencement.   |
| June         | 10. Saturday—Spring Quarter ends.   |
| June         | 19. Monday—Registration of students, and Summer Quarter begins<br>(Junior-Senior students). |
| July         | 4. Tuesday—Independence Day: a holiday.   |
| Sept.        | 2. Saturday—Summer Quarter ends.  |
| Sept.        | 28. Thursday—Registration of students, and Autumn Quarter begins.                           |
| Nov. 30-Dec. | 3. Thursday-Sunday—Thanksgiving Holidays.   |
| Dec.         | 16. Saturday—Autumn Quarter ends.   |

### 1940

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|--------------|--|
| Jan.         | 2. Tuesday—Registration of students, and Winter Quarter begins.                              |
| March        | 16. Saturday—Winter Quarter ends.  |
| March        | 25. Easter Monday: a holiday.  |
| March        | 26. Tuesday—Registration of students, and Spring Quarter begins.                             |
| June         | 3. Monday—Commencement.  |
| June         | 8. Saturday—Spring Quarter ends.   |
| June         | 17. Monday—Registration of students, and Summer Quarter begins.<br>(Junior-Senior students). |
| July         | 4. Thursday—Independence Day: a holiday.   |
| Aug.         | 31. Saturday—Summer Quarter ends.  |
| Sept.        | 26. Thursday—Registration of students, and Autumn Quarter begins.                            |
| Nov. 28-Dec. | 1. Thursday-Sunday—Thanksgiving Holidays.  |
| Dec.         | 14. Saturday—Autumn Quarter ends.  |

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The Treasurer's Office is on the third floor of the Administration Building on the West Campus, and is open daily, except Sunday, from 9 A.M. to 4:30 P.M.

The office of the Recorder and Dean of the School of Medicine is in Room M 133 of the Medical School, and is open daily, except Sunday, from 8:15 A.M. to 5 P.M.

For any further information, address THE DEAN, DUKE UNIVERSITY SCHOOL OF MEDICINE, DURHAM, N. C.

## OFFICERS OF ADMINISTRATION

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WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Dean of the School of Medicine*

HELEN I. STOCKSDALE  
*Recorder of the School of Medicine*

## FACULTY OF THE SCHOOL OF MEDICINE

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A.B. and A.M., Duke, 1930 and 1932; Ass't. Sup't. and Superintendent, Duke Hospital, 1930—

EDWIN PASCAL ALYEA, S.B., M.D., *Associate Professor of Surgery in Charge of Urology*.

S.B., Princeton, 1919; M.D., Johns Hopkins, 1923; Int. in Med.; Int. and Ass't. Res. in Surg.; Ass't. Res. and Res. in Urol., Johns Hopkins Hosp., 1923-1929; Ass't. and Instr. in Surg., and Instr. in Urol., Johns Hopkins Med. Sch., 1925-1930; Urologist, Duke Hospital, 1930—

WILLIAM BANKS ANDERSON, A.B., M.D., *Associate Professor of Surgery in Charge of Ophthalmology*.

A.B., Univ. of North Carolina, 1920; M.D., Johns Hopkins, 1924; Int., Union Memorial Hosp., Baltimore, 1924-1925; Int., Massachusetts Eye and Ear Infirmary, 1925-1927; Ophthalmologist, Duke Hospital, 1930—

JAY MORRIS ARENA, B.S., M.D., *Assistant Professor of Pediatrics*.

B.S., West Virginia, 1930; M.D., Duke, 1932; Int. in Ped., Johns Hopkins Hosp., 1932-1933; Ass't. and Instr. in Pediatrics, Duke Med. Sch., 1933-1935; Ass't. Res., Res. and Assistant Pediatrician, Duke Hospital, 1933—

THEODORE W. ATWOOD, A.B., D.M.D., *Associate in Dentistry*.

A.B., Duke, 1928; D.M.D., Harvard, 1932; Dentist, Duke Hospital, 1934—

HERMAN GLENN BAITY, Sc.D., *Lecturer in Public Health*.

A.B. and S.B. in C.E., North Carolina, 1917 and 1922; M.S. and Sc.D., Harvard, 1925 and 1928; Professor of Sanitary and Municipal Engineering, Univ. of North Carolina; 1938—

ROGER DENIO BAKER, A.B., M.D., *Assistant Professor of Pathology*.

A.B., Wisconsin, 1924; M.D., Harvard, 1928; Ass't. Res. Pathologist, Johns Hopkins Hosp., 1928-1930; Ass't. in Path., Johns Hopkins Med. Sch., 1928-1929; Instr., 1929-1930; Instr. in Anat. and Instr. in Path., Duke Med. Sch., 1930-1934; Assistant Pathologist, Duke Hospital, 1930—

JOSEPH W. BEARD, B.S., M.D., *Assistant Professor of Surgery in Charge of Experimental Surgery*.

B.S., Univ. of Chicago, 1926; M.D., Vanderbilt, 1929; Ass't. and Instr. in Surg., Vanderbilt Univ. Med. Sch., 1930-1932; Int., Ass't. Res. and Res. in Surg., Vanderbilt Univ. Hosp., 1929-1932; Ass't. in Path. and Bact., Rockefeller Institute for Med. Research, N. Y. City, 1932-1935; Assoc. in Path. and Bact., Rockefeller Institute for Med. Research, Princeton, 1935-1937; Assistant Surgeon, Duke Hospital, 1937—

FREDERICK BERNHEIM, A.B., Ph.D., *Associate Professor of Physiology and Pharmacology*.

A.B., Harvard, 1925; Ph.D., Cambridge, 1928; Nat. Res. Council Fellow, Johns Hopkins Med. Sch., Dept. of Physiol. Chem., 1929-1930; 1930—

MARY LILIAS CHRISTIAN BERNHEIM, B.A., M.A., Ph.D., *Assistant Professor of Biochemistry*.

B.A., M.A. and Ph.D., Cambridge, 1925, 1927 and 1929; Fellow Newnham College, 1927-1930; 1930—

WILLIAM ZIEGLER BRADFORD, B.S., M.D., *Assistant Professor of Obstetrics and Gynecology, and Director, Outside Obstetric Service, Charlotte, N. C.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int., Howard Hosp., Graduate Hosp., Long Island College Hosp., Bellevue Hosp., 1928-1932; 1935—



HAROLD WILLIAM BROWN, A.B., M.S., Sc.D., Dr. P.H., M.D., *Professor of Preventive Medicine and Public Health.*

A.B., Kalamazoo, 1924; M.S., Kansas State, 1925; Sc.D., Johns Hopkins, 1928; M.D., Vanderbilt, 1933; Research Associate, Vanderbilt Medical Sch., 1927-1934; London School of Hygiene and Tropical Medicine, 1934-1935; Dr. P.H., Harvard, 1936; P.A. Surgeon, U. S. Public Health Serv., 1936-1937; 1938—

JASPER LAMAR CALLAWAY, B.S., M.D., *Associate in Dermatology and Syphilology.*

M.D., Duke, 1932; B.S., Alabama, 1935; Ass't. Instr. in Derm. and Syphil., Univ. of Pennsylvania Med. Sch., 1932-1933; Int. and Ass't. Res. in Med., Duke Hosp., 1933-1935; Instr. in Phys. Diag. and Path., Univ. of Alabama, Jan.-July, 1935; Instr. in Derm. and Syphil., Univ. of Pennsylvania Sch. of Med., 1935-1937; Ass't. Field Physician, U. S. P. H. S., Feb.-July, 1937; *Assistant Physician, Duke Hospital, 1937—*

BAYARD CARTER, A.B., B.A., M.A., M.D., *Professor of Obstetrics and Gynecology.*

A.B., Delaware, 1920; B.A. and M.A., Oxford, 1923 and 1932; M.D., Johns Hopkins, 1925; member Obs. and Gyn. staff of New Haven Hosp. and Yale Med. Sch., 1925-1929; Assoc. Prof. Obs. and Gyn., and Head of Dept., Univ. of Va. Med. Dept., 1929-1931; *Obstetrician and Gynecologist, Duke Hospital, 1931—*

NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Associate in Bacteriology and Mycology.*

B.S., Bates, 1930; A.M. and Ph.D., Harvard, 1931 and 1933; Research Fellow, Laboratoire de Parasitologie, Fac. de Médecine, Paris, 1933-1934; Research Ass't., Harvard Med. Sch. and Mass. Gen'l. Hosp., Jan. 1 to Oct. 1, 1935; 1935—

THOMAS BUCKINGHAM COOLIDGE, B.A., Ph.D., M.D., *Associate in Biochemistry.*

B.A. and M.D., Harvard, 1923 and 1927; Ph.D., Columbia, 1937; Int. in Med., Massachusetts General Hosp., 1927-1929; Tutor and Research Ass't. in Chem., Harvard College, 1929-1932; Ass't. in Biochem., College of Physicians & Surgeons, 1934-1935; Instr. in Biochem., Duke Med. Sch., 1935-1937; 1935—

RAYMOND S. CRISPELL, A.B., M.D., *Associate Professor of Neuro-psychiatry.*

A.B. and M.D., Cornell, 1917, 1920; Staff, Bloomingdale Hosp. and Instr. in Neuro-anatomy, Cornell, 1920-1923; House Physician and Resident Neurologist, Bellevue Hosp., N. Y., 1921-1923; Fellow in Neurology, Univ. of Utrecht, Holland, 1925; Medical Director, Sahler Sanitarium, 1926-1933; *Neuropsychiatrist, Duke Hospital, 1933—*

WILLIAM JOHN DANN, B.Sc., Ph.D., *Associate Professor of Physiology and Nutrition.*

B.Sc., Sheffield, 1925; Ph.D., Cambridge, 1930; Med. Research Scholar, Worshipful Co. of Grocers, 1931-1933; Beit Mem. Research Fellow, 1933-1937; 1934—

WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Dean of the School of Medicine and Professor of Pediatrics.*

A.B., Princeton, 1913; B.A., B.Sc., and M.A., Oxford, 1915, 1916 and 1919; M.D., Johns Hopkins, 1917; D.Sc., Wake Forest, 1932; Int., Radcliffe Infirmary, 1915-1916; Ass't. Res., Assoc. Ped., Acting Pediatrician in Charge, Johns Hopkins Hosp., 1919-1927; Instr., Assoc., Assoc. Prof., Acting Head of Dept. of Ped., and Ass't. Dean, Johns Hopkins Med. Sch., 1919-1927; *Pediatrician, Duke Hospital, 1927—*

MACDONALD DICK, B.A., M.A., M.D., *Associate in Medicine, Physiology, and Pharmacology.*

B.A. and M.A., Virginia, 1922 and 1923; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Vanderbilt Univ. Hosp., 1928-1930; Ass't. in Path. and Bact., Rockefeller Institute, 1930-1932; *Assistant Physician, Duke Hospital, 1932—*

GEORGE SHARP EADIE, M.A., M.B., Ph.D., *Professor of Physiology and Pharmacology.*

M.A. and M.B., Toronto, 1923 and 1921; Ph.D., Cambridge, 1927; Demonstrator in Biochem., Toronto, 1923-1925; Ass't. in Physiol., Dalhousie, 1927-1928; Assoc. in Physiol., Johns Hopkins Med. Sch., 1928-1930; 1930—

WATT WEEMS EAGLE, A.B., M.D., *Associate Professor of Surgery in Charge of Otolaryngology.*

A.B., Univ. of North Carolina, 1918; Grad. stud., *ibid.*, 1918-1919; M.D., Johns Hopkins, 1925; Int., Church Home and Infirmary, Baltimore, 1925-1926; Int., Ass't. Res. and Res. in Laryngol., Johns Hopkins Hosp., 1926-1929; Ass't. and Instr. in Laryngol., Johns Hopkins Med. Sch., 1927-1930; *Otolaryngologist, Duke Hospital, 1929—*

JOHN WENDELL EVERETT, A.B., Ph.D., *Associate in Anatomy.*

A.B., Olivet, 1928; Ph.D., Yale, 1932; Instr. in Biol., Goucher, 1930-1931; 1932—

HAROLD FINKELSTEIN, B.S., M.D., *Associate in Surgery.*

B.S., Yale, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res. in Surg., Johns Hopkins Hosp., 1928-1929 and 1930-1931; Fellow in Surg., Johns Hopkins Med. Sch., 1929-1930; Ass't., Instr. and Assoc. in Anat. and Surg., Duke Med. Sch., 1931-1937; Ass't. Res. and Res. in Surg., and *Assistant Surgeon, Duke Hospital, 1931—*

WILEY DAVIS FORBUS, A.B., M.D., *Professor of Pathology.*

A.B., Washington and Lee, 1916; M.D., Johns Hopkins, 1923; Res. and Assoc. Pathologist, Johns Hopkins Hosp., 1926-1927 and 1929-1930; Guest Ass't., Pathol. Inst., Ludwig Maximilian's Univ., Munich, 1928; Pathol., Baltimore City Hospitals; Consulting Pathologist, Frederick City Hosp., 1925-1930; Ass't., Instr. and Assoc. in Path., Johns Hopkins Med. Sch., 1923-1930; *Pathologist, Duke Hospital, 1929—*

CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Associate Professor of Surgery.*

A.B., Wittenberg, 1924; M.D., Johns Hopkins, 1928; Int. and Ass't. Res., Johns Hopkins Hosp., 1928-1930; Ass't. in Surg., Johns Hopkins Med. Sch., 1929-1930; Instr. and Ass't. Professor, Duke Med. Sch., 1930-1935; Resident in Surgery and *Associate Surgeon, Duke Hospital, 1930—*

ROBERT WILLIAMS GRAVES, B.S., M.A., M.D., *Associate in Neurology.*

B.S., Davidson, 1926; M.A., Princeton, 1928; M.D., Duke, 1933; Voluntary Ass't., Montreal Neurological Institute, June-Dec., 1933; Int. and Ass't., Res. in Med., New Haven Hosp., 1934-Jan., 1936; Voluntary Ass't., Nat'l. Hosp., Queen Square, London, and Instituto del Cancer, Madrid, Jan.-July, 1936; Instr. in Anat., Duke Med. Sch., 1936-1937; *Assistant Physician, Duke Hospital, 1937—*

EDWIN CROWELL HAMBLIN, B.S., M.D., *Associate Professor of Obstetrics and Gynecology.*

B.S. and M.D., Virginia, 1921 and 1928; Ass't. Instr. in Pharmacol. and Materia Medica, Baylor Med. Coll., 1922-1926; Int. and Res. Obs. and Gyn., Univ. Va. Hosp., 1928-1930; Clinical Instr. in Obs. and Gyn., Univ. Med. Dept., 1930-1931; *Associate Obstetrician and Gynecologist, and Endocrinologist, Duke Hospital, 1931—*

FREDERIC MOIR HANES, A.B., A.M., M.D., *Florence McAlister Professor of Medicine.*

A.B., Univ. of North Carolina, 1903; A.M., Harvard, 1904; M.D., Johns Hopkins, 1908; Int., Johns Hopkins Hosp., 1908-1909; Assoc. Prof. of Path., Columbia Univ., and Pathologist, Presbyterian Hosp., N. Y., 1909-1912; Assoc., Rockefeller Institute, 1912-1913; Assoc. Prof. of Medicine, Washington Univ. Med. Dept., 1913-1914; Ass't. in Neurology, Queen Square Hospital, London, 1914; Prof. of Therapeutics, Med. Coll. of Va., 1914-1916; Lt. Col. Commanding Base Hosp. 65, A. E. F., 1917-1918; *Physician, Duke Hospital, 1931—*

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A.B., Dartmouth, 1929; M.D., Harvard, 1933; Med. House Officer, House of Good Samaritan, Boston, Oct., 1933-Jan., 1934; Int. in Med., Univ. of Chicago Clinics, 1934-1935; Int., Infants and Children's Hosp., Boston, 1935-1936; Ass't. Res. and *Assistant Pediatrician, Duke Hospital, 1936—*

DERYL HART, A.B., A.M., M.D., *Professor of Surgery.*

A.B. and A.M., Emory, 1916 and 1917; M.D., Johns Hopkins, 1921; Int. in Surg., Ass't. Res. in Surg. Path., Ass't. Res., Res., and Assoc. Surgeon, Johns Hopkins Hosp., 1921-1930; Ass't. in Path., Instr., and Assoc. in Surg., Johns Hopkins Med. Sch., 1922-1929; *Surgeon, Duke Hospital, 1929—*

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A.B., Colorado College, 1919; M.A. and Ph.D., Illinois, 1920 and 1922; M.D., Johns Hopkins, 1926; Instr. in Anat., Vanderbilt Med. Sch., 1926-1930; 1930—

JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Associate in Medicine.*

B.S., Davidson College, 1925; M.A., Davidson, 1926; M.D., Univ. of Penn., 1930; Int., Hosp. of Univ. of Penn., 1930-1932; Research Fellow in Pharmacology, Univ. of Penn., 1932-1935; Instr. in Pharmacology, 1935-1938; Part-time staff Physician, Medical and Gastro-Intestinal Clinics, University Hospital, 1935-1938; *Assistant Physician, Duke Hospital, 1938—*

WILLIAM HENRY HOLLINSHEAD, B.A., M.S., Ph.D., *Associate in Anatomy.*

B.A., M.S., and Ph.D., Vanderbilt, 1926, 1927 and 1932; Instr. in Biol., Vanderbilt, 1927-1930; Instr. in Anat., Duke Med. Sch., 1930-1935; 1930—

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A.B. and M.D., Johns Hopkins, 1922 and 1926; Int. and Ass't. Res. in Med., Johns Hopkins Hosp., 1926-1928; Ass't. in Med., Johns Hopkins Med. Sch., 1927-1928; Ass't. Res. Physician, Hosp. of Rockefeller Institute, N. Y., 1928-1930; *Assistant Physician, Duke Hospital, 1930—*

ROBERT RANDOLPH JONES, JR., A.B., M.D., *Assistant Professor of Surgery.*

A.B., Davidson, 1924; M.D., Johns Hopkins, 1928; Int. in Med., Strong Mem. Hosp., 1928-1929; Int. in Surg., Johns Hopkins Hosp., 1929-1930; Ass't. and Instr., Duke Med. Sch., 1930-1933; Ass't. Res. and Res. in Surgery, and *Assistant Surgeon, Duke Hospital, 1930—*

WALTER KEMPNER, M.D., *Associate in Medicine.*

M.D., Heidelberg, 1927; Research Assoc. and Ass't. to Prof. O. Warburg, Kaiser Wilhelm Institut f. Zellphysiologie, Berlin-Dahlem, 1927-1928 and 1933-1934; Ass't. to Prof. von Bergmann, Med. Clinic, Univ. of Berlin, 1929-1933; *Assistant Physician, Duke Hospital, 1934—*

ANGUS MCBRYDE, B.S., M.D., *Assistant Professor of Pediatrics.*

B.S., Davidson, 1924; M.D., Pennsylvania, 1928; Int. and Res. in Ped., Univ. of Pennsylvania Hosp., 1928-1930; Ass't. Res. in Ped., Johns Hopkins Hosp. and Ass't. in Ped., Johns Hopkins Med. Sch., 1930-1931; *Assistant Pediatrician, Duke Hospital, 1931—*

PAUL PRESSLY McCAIN, A.B., M.D., *Assistant Professor of Medicine.*

A.B., Erskine, 1907; M.D., Maryland, 1911; Int., Bay View Hosp., Baltimore, 1911-1912; Res., Gaylord Farm Sanat., Wallingford, Conn., 1912-1914; Chief of Med. Service, 1914-1924; and Sup't. North Carolina Tubercul. Sanat., 1924; 1931—

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B.S., Purdue, 1918; M.S., Illinois, 1923; Ph.D., Wisconsin, 1927; Instr. in Physiol., Univ. Illinois, 1920-1923; Instr. in Physiol., Univ. of Wisconsin Med. Sch., 1923-1927; Ass't. Prof. of Physiol. and Pharmacol., Univ. of Georgia Sch. of Med., 1927-1929; Sr. Instr. in Physiol., Western Reserve Univ. Sch. of Med., 1929-1930; 1930—

DONALD STOVER MARTIN, A.B., M.D., *Associate Professor of Bacteriology and Associate in Medicine.*

A.B., Johns Hopkins, 1925; M.D., Rochester, 1930; Int. in Ped., Strong Mem. Hosp., 1930-1931; Ass't. in Physiol. and Ass't. in Bact., Rochester Med. Sch., 1926-1927 and 1931-1932; *Associate Bacteriologist, Duke Hospital, 1932—*

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics.*

A.B., Whitman, 1913; M.S., Teachers Coll., Columbia, 1927; Prof. of Home Economics, Puget Sound, 1915-1917; Dietitian, Univ. of Iowa Hosp., 1919-1920, and Charles T. Miller Hosp., St. Paul, Minn., 1920-1926; Admin. Dietitian, Lakeside Hosp., Cleveland, 1929-1930; *Chief Dietitian, Duke Hospital, 1929—*

WALTER MARX, M.A., Ph.D., *Research Associate in Surgery and Biochemistry.*

Dipl.-Ing. (M.A.), and Dr.-Ing. (Ph.D.), Karlsruhe, 1930 and 1933; Ass't. Instr. f. physikal. Chemie, Technische Hochschule, Karlsruhe, 1931-1932; Research Fellow, Kaiser Wilhelm Institut f. medizin. Forschung, Heidelberg, 1933-1934; Research Fellow, Mount Sinai Hosp., New York City, 1934-1937; 1937—

HANS NEURATH, Ph.D., *Research Associate in Biochemistry.*

Ph.D., Vienna, 1933; Instr. in Colloid Chem., Univ. of Vienna, 1933-1934; Research Fellow, Univ. of London, 1934-1935; Research Fellow in Biochem., Univ. of Minn., 1935-1936; Instr. in Chem., Cornell Univ., 1936-1938; 1938—

WILLIAM McNEAL NICHOLSON, A.B., M.D., *Associate in Medicine and Biochemistry.*

A.B., Duke, 1927; M.D., Johns Hopkins, 1931; Res. House Officer in Med., Johns Hopkins Hosp., 1931-1932; Ass't. in Path. and in Med., Johns Hopkins Med. Sch., 1932-1935; *Assistant Physician, Duke Hospital, 1935—*

J. W. ROY NORTON, A.B., M.P.H., M.D., *Lecturer in Preventive Medicine and Public Health.*

A.B., Duke, 1920; M.D., Vanderbilt, 1928; M.P.H., Harvard, 1936; Prof. of Public Health Administration, Univ. of North Carolina; 1938—

EDWARD STEWART ORGAIN, M.D., *Associate in Medicine.*

M.D., Virginia, 1930; Int., Ass't. Res. and Res. in Med., Univ. Hospital of Cleveland, 1930-1933; Res. Fellow in Med., assigned to Cardiology, Mass. General Hosp., 1933-1934; *Assistant Physician, Duke Hospital, 1934—*

ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D., *Professor of Zoology.*

B.S. and A.M., Nebraska, 1900 and 1904; Ph.D., Harvard, 1908; Austin Teaching Fellow, Harvard, 1907-1908; London School of Hygiene and Tropical Medicine, 1926; Instr. in Zoology, Michigan, 1908-1910; Ass't. Prof. 1910-1911; Assoc. Prof., Philippines, 1911; St. Louis, 1911; Wisconsin, 1911-1912; Assoc. Prof., 1912-1919; Prof., 1919-1927; Prof., Keiogijuku Digaku, Tokyo, 1929-1930; 1930—

WILLIAM ALEXANDRE PERLZWEIG, B.S., A.M., Ph.D., *Professor of Biochemistry.*

B.S., A.M. and Ph.D., Columbia, 1913, 1914 and 1915; Ass't. in Physiol. Chem., Columbia Med. Sch., 1913-1916; Research Chemist, Rockefeller Institute, 1916-1917; Research Biochemist, Hygienic Laboratory, U. S. P. H. S., 1919-1921; Instr. and Assoc. in Med., Johns Hopkins Med. Sch., 1922-1930; Chemist to the Med. Clin., Johns Hopkins Hosp., 1922-1930; *Biochemist, Duke Hospital, 1929—*

ELBERT LAPSLEY PERSONS, A.B., M.D., *Associate in Medicine and Dermatology.*

A.B., Ohio State, 1923; M.D., Harvard, 1927; House Officer, Huntington Mem. Hosp., Boston, 1925-1926; Int. and Res. in Med., Massachusetts General Hosp., 1927-1930; Teaching Fellow in Med., Harvard Med. Sch., 1929-1930; Instr. in Med., Duke Med. Sch., 1930-1934; Res. in Med. and *Assistant Physician, Duke Hospital, 1930—*

WATSON SMITH RANKIN, M.D., *Lecturer in Preventive Medicine and Public Health.*

M.D., Maryland, 1901; Int. and Res. in Path., Univ. of Maryland Hospital, 1901-1903; Dean and Prof. of Path., Wake Forest Coll., 1903-1909; Sec'y., State Board of Health and State Health Officer, North Carolina, 1909-1925; Director of Hosp. and Orphan Section, The Duke Endowment, 1925; 1930—

ROBERT JAMES REEVES, A.B., M.D., *Associate Professor of Roentgenology.*

A.B. and M.D., Baylor, 1920 and 1924; Int., Baylor Hosp., 1924-1925; Res. in Roentgenol., Massachusetts General Hosp., 1925-1926; Ass't. Attending Physician in Roentgen Ray Dept., Presbyterian Hosp. and Med. Center, N. Y., 1926-1930; Instr. in Med., Columbia Med. Sch., 1925-1930; *Radiologist, Duke Hospital, 1930—*



MILTON JOSEPH ROSENAU, M.D., *Lecturer in Preventive Medicine and Public Health.*

M.D., Pennsylvania, 1889; Student, Hygienische Institut, Berlin, 1892-1893; L'Institut Pasteur, Paris, 1900; Pathologisches Institut, Vienna, 1900; Hon. A.M., Harvard; Professor of Epidemiology and Director of the Division of Public Health, Univ. of North Carolina; 1938—

ROBERT ALEXANDER ROSS, B.S., M.D., *Associate Professor of Obstetrics and Gynecology.*

B.S., Univ. of North Carolina, 1920; M.D., Pennsylvania, 1922; Res. Physician, Univ. of Pa. Settlement House, 1921-1922; Int., Episcopal Hosp., Phila., 1922-1924; Int. and Res., Kensington Hosp. for Women, 1923-1925; Obstetrician, Watts Hospital; Obstetrician, Salvation Army Hospital; Consulting Obstetrician and Gynecologist, Lincoln Hospital; Associate Obstetrician and Gynecologist, Duke Hospital, 1930—

JULIAN MEADE RUFFIN, A.B., M.A., M.D., *Associate Professor of Medicine.*

A.B., M.A. and M.D., Virginia, 1921, 1922 and 1926; Int. and House Officer, Bellevue Hosp., N. Y., 1926-1928; Instr. in Phys. Diag., George Washington Med. Sch., 1928-1930; Assistant and Associate Physician, Duke Hospital, 1930—

\*ALFRED RIVES SHANDS, JR., B.A., M.D., *Associate Professor of Surgery in Charge of Orthopaedics.*

B.A. and M.D., Virginia, 1918 and 1922; Int. in Med., Ass't. Res. in Surg., Int., Ass't. Res. and Res. in Ortho. Surg., Johns Hopkins Hosp., 1922-1927; Instr. in Ortho. Surg., Johns Hopkins Med. Sch., 1926-1927; Attending Orthopaedic Surgeon, four hospitals, Washington, D. C.; Instr. in Ortho., George Washington Univ. Med. Sch., 1927-1930; Orthopaedist, Duke Hospital, 1930—

DAVID TILLERSON SMITH, A.B., M.D., *Professor of Bacteriology, and Associate Professor of Medicine.*

A.B., Furman, 1918; M.D., Johns Hopkins, 1922; Int. in Ped., Johns Hopkins Hosp., 1922-1923; Ass't. in Path. and Bact., Rockefeller Institute, 1923-1924; Bacteriologist, Pathologist and Director, Research Laboratory of N. Y. State Hosp. for Tuberculosis, Ray Brook, N. Y., 1924-1930; Bacteriologist and Associate Physician, Duke Hospital, 1930—

SUSAN GOWER SMITH, A.B., M.A., *Associate in Medicine.*

A.B., Barnard, 1919; M.A., Columbia, 1924; Chemist, N. Y. State Hosp., 1926-1930; Instr. in Biochem.; Instr. in Phys. and Pharm.; Assoc. in Phys. and Nutrition, and Associate in Med. and Nutrition, 1930-1937; 1930—

JOSEPH ANDERSON SPEED, M.D., *Director of Student Health.*

M.D., Jefferson, 1914; Int., rotat., Phila. Polyclinic Hosp., 1914-1915; Int., Babies Hosp., Phila., June-Nov., 1915; in practice, Durham, 1915-17; Capt., Med. Corps, 113th Field Artillery, A. E. F., 1917-1919; in practice and College Phys. for Students, Trinity Coll., 1920-1930; 1930—

DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Associate Professor of Pathology.*

B.S., Virginia, 1922; M.D. and M.S., Yale, 1927 and 1929; Acting Res. and Res. in Path., New Haven Hosp., 1927-1929; Instr. in Path., Yale Med. Sch., 1928-1929; Sterling Research Fellow, 1929-1930; Ass't. in Med., Hosp. of Rockefeller Institute, 1930-1932; Associate Pathologist, Duke Hospital, 1932—

FRANCIS HUNTINGTON SWETT, A.B., M.A., Ph.D., *Professor of Anatomy.*

A.B., Bates, 1916; M.A., Brown, 1917; Ph.D., Yale, 1922; Instr. and Assoc. in Anat., Johns Hopkins Med. Sch., 1922-1925; Assoc. Prof. of Anat., Vanderbilt Med. Sch., 1925-1930; 1929—

HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Associate Professor of Biochemistry and Toxicology.*

B.S., M.S. and Ph.D., Univ. of North Carolina, 1920, 1921 and 1924; Instr. in Chem. and Pharmaceut. Chem., Univ. of North Carolina, 1920-1925; Research Chemist, E. R. Squibb & Sons, and Fisk Rubber Company, 1925-1928; Instr. in Ophthalmol., and Chemist to Wilmer Institute, Johns Hopkins Hosp., 1928-1930; Visiting Fellow in Forensic Med., New York Univ., 1934; Associate Biochemist and Toxicologist, Duke Hospital, 1930—

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WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Assistant Professor of Obstetrics and Gynecology.*

A.B., Lynchburg, 1926; M.A. and M.D., Virginia, 1927 and 1931; Int., Virginia-Mason Hosp., 1931-1932; Ass't. Res. and Res. in Obs. and Gyn., Duke Hosp., 1932-1935; Assistant Obstetrician and Gynecologist, Henry Ford Hosp., 1936-1937; *Assistant Obstetrician, Duke Hospital, 1937—*

BARNES WOODHALL, A.B., M.D., *Assistant Professor of Surgery in Charge of Neuro-surgery.*

A.B., Williams, 1926; M.D., Johns Hopkins, 1930; Int., Ass't. Res. and Res. in Surg., Johns Hopkins Hosp., 1930-1937; Ass't. and Instr. in Surg., Johns Hopkins Med. Sch., 1931-1937; *Assistant Surgeon, Duke Hospital, 1937—*

ANNE YATES, A.B., A.M., Ph.D., *Assistant Professor in Biochemistry.*

A.B., Mount Holyoke, 1913; A.M. and Ph.D., Columbia, 1915 and 1920; Teach. Fellow in Chem., Barnard, 1913-1915; Instr. in Physiol., Mount Holyoke, 1915-1917; Teach. Fellow in Physiol., Minnesota Med. Sch., 1917-1918; Instr. in Physiol., Wellesley, 1919-1920; Assoc. in Biol., Bryn Mawr, 1920-1925; Ass't. Scientist, St. Elizabeth's Hosp., 1926-1933; *Assistant Biochemist, Duke Hospital, 1933—*

EUGENE WILLARD ARNETT, JR., M.D., *Assistant in Student Health.*

M.D., Virginia, 1937; Int., U. S. Marine Hosp., Balto., 1937-1938; *Assistant Resident in Student Health, Duke Hospital, 1938—*

RALPH A. ARNOLD, B.A., M.D., *Assistant in Otolaryngology and Ophthalmology.*

B.A., Rochester, 1932; M.D., Buffalo, 1936; Int. in Stud. Health, and Int. and *Assistant Resident in Otolaryngology and Ophthalmology, Duke Hospital, 1936—*

LENOX DIAL BAKER, M.D., *Instructor in Orthopaedics.*

M.D., Duke, 1933; Int. in Orth. Surg. and in Gen'l. Surg.; Ass't. Res. in Orth. Surg. and Res. in Orth., Johns Hopkins Hosp., 1933-1937; Res., Children's Hospital School, 1936; Ass't. and Instr., Orth. Surg., Johns Hopkins Med. Sch., 1935-1937; *Assistant Orthopaedist, Duke Hospital, 1937—*

GEORGE JAY BAYLIN, A.B., M.D., *Instructor in Anatomy.*

A.B., Johns Hopkins, 1932; M.D., Duke, 1937; Ass't. in Anat., Duke Med. Sch., 1934-1937; Int. in Surg., Sinai Hosp., Balto., 1937-1938; Voluntary Ass't. in Path., Guy's Hosp., London, Sept., 1938-Feb., 1939; *1939—*

WILLIAM HENRY BRIDGERS, B.S., M.D., *Assistant in Surgery.*

B.S. and M.D., Duke, 1936; Int., and *Assistant Resident in Surgery, Duke Hospital, 1936—*

W. RAY BRYAN, B.S., Ph.D., *Research Fellow National Cancer Institute. Research Associate in Experimental Surgery.*

B.S., Carson Newman, 1928; Ph.D., Vanderbilt, 1931; Ass't. in Physiol., Vanderbilt Univ. Med. Sch., 1929-1931; Instr. in Physiol., Vanderbilt Univ. Med. Sch., 1931-1935; Ass't. Prof. of Physiol., Vanderbilt Univ. Med. Sch., 1935-1936; Ass't. Prof. of Experimental Pathology, Albany Med. Coll., 1936-1938; *1938—*

ROBERT LAWRENCE CRAIG, B.A., M.D., *Instructor in Neuropsychiatry.*

B.A., Amherst, 1931; M.D., Johns Hopkins, 1935; Int. and Ass't. Res. in Med., 1935-1937, and Ass't. Res. in Neurol., Balto. City Hosps., 1937-1938; Ass't. in Neurol., Johns Hopkins Med. Sch., 1937-1938; *Resident in Neuropsychiatry, Duke Hospital, 1938—*

ERLE BULLA CRAVEN, JR., A.B., M.D., *Instructor in Medicine.*

A.B., Duke, 1925; M.D., Johns Hopkins, 1929; Res. in Path., Int., Ass't. Res. and Res. in Med., Duke Hospital, 1930-1934; *1937—*

W. KENNETH CUYLER, B.A., M.A., *Research Fellow in Endocrinology.*

B.A., Texas, 1923; M.A., Western Reserve, 1929; Director of Clin. Lab., Dept. of Endocrinol. and Metabolism, Cleveland Clinics, 1929-1938; *1938—*

WALTER EUGENE DANIEL, B.A., M.D., *Instructor in Urology.*

B.A., Wake Forest, 1927; M.D., Med. Coll. of Virginia, 1931; Int. in Private Diagnostic Clinic and in Path., Duke Hosp., 1932-1934; Fellow in Urol., Pennsylvania Hosp., 1934-1935; Ass't. Res. and Resident in Urology, and *Assistant Urologist, 1935—*

ERNEST BRINDLEY DUNLAP, JR., A.B., *Assistant in Anatomy.*

A.B., Duke, 1935; 1938—

ELEANOR BEAMER EASLEY, B.A., M.A., M.D., *Assistant in Obstetrics and Gynecology.*

B.A., Idaho, 1928; M.A., Iowa, 1929; M.D., Duke, 1934; Int. and Ass't. Res. in Med., and Int. and Assistant Resident in *Obstetrics and Gynecology, Duke Hospital, 1934—*

JESSE HARRISON EPPERSON, B.S., *Instructor in Preventive Medicine and Public Health.*

B.S., Oklahoma, 1914; Health Officer, Durham City and County, 1922; 1930—

CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Instructor in Pathology.*

B.S., B.M. and M.D., Minnesota, 1932 and 1933; Int. in Surg., Minneapolis Gen'l. Hosp., May-Dec., 1932; Int., rotat., Detroit Receiving Hosp., Jan.-Aug., 1933; Fellow in Med., Minneapolis Gen'l. Hosp., Sept., 1933-Jan., 1934; Clin. Res. Fellow in Ped., Minnesota, Jan., 1934-July, 1935; Ass't. Res., Strong Mem. Hosp., and Ass't. in Path., Rochester Med. Sch., 1935-1937; Assistant Pathologist, Duke Hospital, 1937—

WILLIAM DEMPSEY FARMER, A.B., M.D., *Instructor in Otolaryngology and Ophthalmology.*

A.B. and M.D., Duke, 1930 and 1934; Int. in Med., Baltimore City Hospitals, 1934-1935; Int. in Surg. and Int., Ass't. Res., and Resident in *Otolaryngology and Ophthalmology, Duke Hospital, 1935—*

GEORGE BURTON FERGUSON, M.Sc. (Med.), M.D., *Instructor in Bronchoscopy.*

M.D., Jefferson, 1932; M.Sc. (Med.), Pennsylvania, 1936; Resident Physician, Jefferson Med. Coll. Hosp., 1932-1934; *Bronchoscopist, Duke Hospital, 1937—*

MARIA FERRO, A.B., M.A., *Assistant in Medical Social Service.*

A.B., Utah, 1933; M.A., Chicago, 1939; Medical Social Worker, Salt Lake County General Hospital, 1933-1936; graduate work, Univ. of Chicago, 1937-1938; 1939—

RICHARD VAN FLETCHER, B.S., M.D., *Instructor in Surgery.*

B.S., Georgia, 1929; M.D., Johns Hopkins, 1933; Int. and Assistant Resident in Surgery, Duke Hospital, 1933-1935; on leave of absence, 1935-1936, Trudeau Sanatorium, Saranac Lake, N. Y.; Int. and Assistant Resident in Surgery, Duke Hospital, 1933—

MILO FRITZ, A.B., M.D., *Assistant in Otolaryngology and Ophthalmology.*

A.B. and M.D., Columbia, 1931 and 1934; Int., rotat., Brooklyn Hosp., 1934-1936; Int. in Surg., and Int. and Assistant Resident in *Otolaryngology and Ophthalmology, Duke Hospital, 1936—*

PERRY GIBSON, A.B., B.S., M.S., *Instructor in Medical Social Service.*

A.B., Radcliffe, 1935; B.S. and M.S., Simmons, 1936 and 1937; 1937—

ELIZA DOROTHY GOODMAN, R.N., Anes., *Assistant in Anesthesia.*

Diploma, Mary Washington Hosp. Sch. of Nursing, Fredericksburg, Va., 1927; Certificate in Anesthesia, Duke Hosp., 1933; Anesthetist, Southside Community Hosp., Farmville, Va., 1933-1934; *Anesthetist, Duke Hospital, 1934—*

HAROLD BENEDICT GOTAAS, B.S., M.S., S.M., *Instructor in Public Health.*

B.S. in C.E., Univ. of North Dakota, 1928; M.S. in C.E., Iowa, 1930; S.M., Harvard, 1937; Assistant Professor Sanitary Science, Univ. of North Carolina; 1938—

JUNE U. GUNTER, A.B., M.D., *Assistant in Pathology.*

A.B., North Carolina, 1931; M.D., Jefferson, 1936; Int., rotat., Cooper Hosp., Camden, N. J., 1936-1937; Res. in Path., Pennsylvania Hosp., 1937-1938; Assistant Resident in Pathology, Duke Hospital, 1938—

SNOWDEN COWMAN HALL, A.B., M.D., *Instructor in Medicine.*

A.B., William and Mary, 1923; M.D., Harvard, 1930; Ass't. Res. in Med., and Fellow, Private Diagnostic Clinic, Duke Hospital, 1932-1935; 1937—



ALMA SMITH HAMM, R.N., Anes., *Assistant in Anesthesia.*

Diploma, Maria Parham Hosp. Sch. of Nursing, Henderson, N. C., 1930; Certificate in Anesthesia, Duke Hosp., 1937; *Anesthetist, Duke Hospital, 1937—*

GEORGE THOMAS HARRELL, JR., B.A., M.D., *Assistant in Medicine.*

B.A. and M.D., Duke, 1932 and 1936; Int. in Med. and in Pathology, Duke Hospital, 1936-1937; Pathologist, City Memorial Hospital, Winston-Salem, N. C., Dec., 1937-July, 1938; *Assistant Resident in Medicine, Duke Hospital, 1938—*

LEO CLAY HARRIS, JR., M.D., *Assistant in Surgery.*

M.D., Tennessee, 1934; Int., rotat., Res. in Roentgenology, Ass't. Res. and Res. in Path., John Gaston Hosp., Memphis, 1934-1938; *Assistant Resident in Surgery, Duke Hospital, 1938—*

HAROLD IRA HARVEY, A.B., M.D., *Assistant in Medicine.*

A.B., Harvard, 1924; M.D., Duke, 1937; Int. and *Assistant Resident in Medicine, Duke Hospital, 1937—*

JOSEPH M. HITCH, A.B., M.S., M.D., *Instructor in Dermatology and Syphilology.*

A.B., Delaware, 1929; M.D. and M.S., Virginia, 1933 and 1938; Int. in Derm. and Syphil., Univ. of Va. Hosp., April, 1933-July, 1934; Int., rotat., and in Med. and Surg., Univ. of Okla. Hosp., 1934-1935; Ass't. Res. in Derm. and Syphil., Cleveland City Hosp., 1935-1936; Res., Derm. and Syphil., Univ. of Va. Hosp., 1936-1937; Instr. and Service Fellow in Derm. and Syphil., Univ. of Va. Hosp., 1937-1938; *1938—*

EDWARD CHARLES HOLSCHER, A.B., B.S., M.D., *Instructor in Orthopaedics.*

A.B. and B.S., Missouri, 1933; M.D., Harvard, 1935; Int., rotating, St. Louis City Hospitals, 1935-1936; Res. in Orth., Univ. of Missouri Hosp., Columbia, July-Nov., 1936; *Resident in Orthopaedics, Duke Hospital, 1936—* (Exchange Service in Orthopaedics, Univ. of Va. Hosp., March-July, 1937; Res. Surgeon, N. C. Orth. Hosp., July, 1937-July, 1938.)

FLOYD KINZER HURT, M.D., *Assistant in Radiology.*

M.D., Virginia, 1935; Int., rotat., Duval Co. Hosp., Jacksonville, Fla., 1935-1937; Ass't. Instr. in Path., Va. Med. Sch., 1937-1938; *Assistant Resident in Radiology, Duke Hospital, 1938—*

THOMAS T. JONES, A.B., M.D., *Instructor in Medicine.*

A.B., Davidson, 1928; M.D., Johns Hopkins, 1932; *1937—*

GEORGE WILLIAM JOYNER, B.S., M.D., *Instructor in Surgery.*

B.S., Wake Forest, 1930; M.D., Duke, 1932; Int., Ass't. Res. and Res. in Surgery, and *Assistant Surgeon, Duke Hospital, 1932—*

WILLIAM HENRY KAUFMAN, B.A., M.D., *Assistant in Medicine.*

B.A., Johns Hopkins, 1934; M.D., Duke, 1937; Int. and *Assistant Resident in Medicine, Duke Hospital, 1937—*

MALCOLM D. KEMP, M.D., *Instructor in Psychiatry.*

M.D., Washington, 1930; Int., rotat., Grasslands Hosp., Valhalla, N. Y., 1930-1931; Ass't. Phys., Spring Grove State Hosp., Cantonville, Md., 1931-1935; Assoc. in Psychiatry, Phipps Clinic, Johns Hopkins Hosp., 1935-1936; Medical Director, The Pinebluff Sanitarium, Pinebluff, N. C., 1936; *1937—*

JAMES RAYMOND KLEIN, A.B., *Assistant in Biochemistry.*

A.B., Duke, 1934; *1930—*

HENRY IRVING KOHN, A.B., Ph.D., *Instructor in Physiology and Pharmacology.*

A.B., Dartmouth, 1930; Ph.D., Harvard, 1935; Fellow of the Gen'l. Educ. Bd., Stockholm and Cambridge, 1935-1937; *1937—*

GEORGE M. LEIBY, M.P.H., Dr. P.H., M.D., *Instructor in Syphilology.*

M.D., Vanderbilt, 1931; M.P.H., Harvard, 1935; Dr. P.H., Johns Hopkins, 1938; Int., Protestant Hospital, Nashville, 1929-1930, Roper Hospital, Charleston, S. C., 1931-1932, and Vanderbilt Univ. Hospital, Nashville, 1932-1933; *1938—*

DAVID WASHINGTON LESTER, M.D., *Instructor in Neuropsychiatry.*  
M.D., Duke, 1935; Int., rotat. and Res. in Med., San Diego Co. Gen'l. Hosp., 1935-1937; Res. in Neuropsychiatry, Compton Sanitarium, Compton, Calif., 1937-1938; *Resident in Neuropsychiatry, Duke Hospital, 1939—*

EDWARD DAVID LEVY, A.B., *Assistant in Biochemistry.*  
A.B., Harvard, 1935; 1938—

CLARENCE MCGRAW LIGHTNER, A.B., M.D., *Research Assistant in Pathology.*  
A.B. and M.D., Columbia, 1926 and 1932; Int. in Med., Roosevelt Hosp., Jan.-July, 1933; N. Y. Med. Examiner, July-Nov., 1933; Ass't. in Path., Lincoln Hosp., New York City, 1933-1936; Ass't. Res. in Radiology, Wisconsin Gen'l. Hosp., 1936-1937; 1937—

ARTHUR HILL LONDON, JR., B.S., M.D., *Instructor in Pediatrics.*  
B.S., North Carolina, 1925; M.D., Pennsylvania, 1927; Int., rotat., Methodist Episcopal Hosp., Phila., 1927-1928; Ass't. Res. in Ped., Children's Hosp., Cincinnati, 1928-1929; Chief Res., Children's Hosp., Phila., and Instr. in Ped., Pennsylvania Med. Sch., 1929-1930; 1932—

DURWARD LEE LOVELL, M.D., *Assistant in Surgery.*  
M.D., Duke, 1936; Int. and Assistant Resident in Surgery, Duke Hospital, 1937—

ROSS CLAYTON MacCARDLE, B.S., Ph.D., *Instructor in Anatomy.*  
B.S., Michigan, 1927; Ph.D., Brown, 1932; Instr. in Cytology, Temple Univ., 1932-1935, and in Anat., Coll. of Physicians and Surgeons, Columbia Univ., 1935-1937; 1937—

WILLIAM ALEXANDER MacCOLL, B.A., M.D., *Assistant in Pediatrics.*  
B.A., Amherst, 1932; M.D., Duke, 1938; Int. in Ped., Strong Memorial Hosp., Rochester, N. Y., March-July, 1938; Int. and Assistant Resident in Pediatrics, Duke Hospital, 1938—

ISAAC HALL MANNING, JR., A.B., M.D., *Instructor in Medicine.*  
A.B., North Carolina, 1931; M.D., Harvard, 1935; Int. in Med., Boston City Hosp., 1936-1937; Ass't. Res. in Med., Ass't. in Path., and Resident in Medicine, Duke Hospital, 1937—

DAVID WILLIAM MARTIN, B.S., M.D., *Assistant in Pediatrics.*  
B.S. in Med. and M.D., Duke, 1937; Int. in Med., Baltimore City Hosps., 1937-1938; Int. and Assistant Resident in Pediatrics, Duke Hospital, 1938—

JASPER EUGENE MORGAN, B.S., A.M., Ph.D., *Instructor in Roentgenology and Physiology.*  
B.S., Wake Forest, 1931; A.M. and Ph.D., Duke, 1932 and 1936; Research Ass't. and Research Assoc. in Physics, Duke Univ., 1931-1936; Consulting Physicist, Duke Hospital, 1936—

HENRY GEORGE MORTON, B.S., M.D., *Assistant in Pediatrics.*  
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VINCE MOSELEY, A.B., M.D., *Assistant in Medicine.*  
A.B. and M.D., Duke, 1933 and 1936; Int. and Assistant Resident in Medicine, Duke Hospital, 1937—

MARY HOEN MULLER, R.N., Anes., *Instructor in Anesthesia.*  
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PHILIP BROWER PARSONS, B.S., M.D., *Instructor in Radiology.*  
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WILLIAM HENRY PETTUS, JR., B.S., M.D., *Assistant in Surgery.*  
B.S., Richmond, 1933; M.D., Cornell, 1937; Int. and Assistant Resident in Surgery, Duke Hospital, 1937—

ELMA O. PHILLIPSON, A.B., M.A., *Assistant in Medical Social Service.*  
A.B., Berea, 1930; M.A., Chicago, 1938; Med. Social Worker, Univ. of Chicago Clinics, Jan.-Aug., 1938; 1938—

LOUIS PLATT, A.B., M.D., *Assistant in Pediatrics.*  
A.B. and M.D., Iowa, 1930 and 1936; Int., rotat., Jewish Hosp. of St. Louis, Mo., 1936-1937; Int. in Ped., New Haven Hosp., 1937-1938; *Assistant Resident in Pediatrics, Duke Hospital, 1938—*

DAVID EDWIN PLUMMER, M.D., *Instructor in Syphilology.*  
M.D., Virginia Med. Coll., 1934; Ass't. in practice, Denton, N. C., 1934-1935; Ass't. in Research, Fitzsimmons Gen'l. Hosp., Denver, Colo., 1935-1937; Pub. Health Work, Lumberton, N. C., 1937-1938; 1938—

RAYMOND WOODROW POSTLETHWAIT, B.S., M.D., *Assistant in Medicine.*  
B.S., West Va., 1935, and M.D., Duke, 1937; Int., N. C. State Sanatorium, April-July, 1937; Int. and *Assistant Resident in Medicine, Duke Hospital, 1937—*

MARY ALVERTA POSTON, *Instructor in Bacteriology.*  
Ass't. in Biol. Lab., Johns Hopkins Hosp., 1922-1930; *Assistant Bacteriologist, Duke Hospital, 1930—*

RICHARD BEVERLY RANEY, A.B., M.D., *Instructor in Orthopaedics.*  
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I. THOMAS REAMER, Ph.G., *Instructor in Pharmacy.*  
Ph.G., Univ. of Maryland, 1924; Ass't. Pharmacist, Johns Hopkins Hosp., 1925-1931; *Pharmacist, Duke Hospital, 1931—*

RAYMOND REISER, A.B., Ph.D., *Anna H. Hanes Research Fellow in Medicine.*  
A.B., Western Reserve, 1929; Ph.D., Ohio State, 1936; 1936—

WILLIAM P. RICHARDSON, B.S., M.P.H., M.D., *Instructor in Preventive Medicine and Public Health.*  
B.S. (Med.), Wake Forest, 1926; M.D., Med. Coll. of Va., 1928; M.P.H., Johns Hopkins, 1933; District Health Officer for Orange-Person-Chatham District Health Department; 1938—

EDWIN TYSON RICKETTS, B.S., M.D., *Assistant in Biochemistry.*  
B.S. and M.D., Duke, 1935 and 1936; Int., N. C. State Sanatorium, March-May, 1936; rotat., Central Disp. and Emergency Hosp., Washington, D. C., 1936-1937, and in Med., Church Home and Infirmary, Baltimore, 1937-1938; *Assistant Resident in Biochemistry, Duke Hospital, 1938—*

LOUIS CARROLL ROBERTS, B.S., M.D., *Instructor in Urology.*  
B.S., Davidson, 1930; M.D., Duke, 1933; Int. in Surg., Ass't. Res. in Path., Ass't. Res. in Surg., and *Resident in Urology, Duke Hospital, 1933—*

NORMAN F. ROSS, D.D.S., *Instructor in Dentistry.*  
D.D.S., Temple, 1937; Int. in Dentistry, and *Assistant Dentist, Duke Hospital, 1937—*

EDWIN MacRAE RUCKER, A.B., M.D., *Assistant in Obstetrics and Gynecology.*  
A.B., Randolph-Macon, 1927; M.D., Duke, 1934; Int. in Med., and Int. and *Assistant Resident in Obstetrics and Gynecology, Duke Hospital, 1934—*

HERMAN MAX SCHIEBEL, A.B., M.D., *Instructor in Surgery.*  
A.B. and M.D., Johns Hopkins, 1929 and 1933; Int., Ass't. Resident and *Resident in Surgery, Duke Hospital, 1933—*

CLOTILDE SCHLAYER, M.D., *Research Assistant in Medicine.*  
Ph.D., Heidelberg, 1927; Voluntary Research Ass't. in Cellular Physiol., University Hosp. of Berlin, 1933-1935; 1937—

WILLIAM SCHULZE, B.S., M.D., *Assistant in Medicine.*  
B.S., Richmond, 1932; M.D., Duke, 1936; Ass't. Res. in Med., Mass. Gen'l. Hosp., July, 1938-Sept., 1938; Int. and *Assistant Resident in Medicine, Duke Hospital, 1936—*

WILL CAMP SEALY, B.S., M.D., *Assistant in Surgery.*

B.S. and M.D., Emory, 1933 and 1936; Int. and *Assistant Resident in Surgery, Duke Hospital, 1936—*

GIFFORD DE ALTON SEITZ, B.A., M.D., *Instructor in Obstetrics and Gynecology.*

B.A. and M.D., Oregon, 1928 and 1932; Int. in Path., Baltimore City Hosps. and Johns Hopkins Hosp., 1932-1933, and in Urol., Johns Hopkins Hosp., 1933-1934; Int., Ass't. Res. and *Resident in Obstetrics and Gynecology, Duke Hospital, 1934—*

O. NORRIS SMITH, B.A., M.D., *Instructor in Medicine.*

B.A., Washington and Lee, 1929; M.D., Pennsylvania, 1933; Int., rotat., and Res. in Path., Pennsylvania Hosp., 1933-1937; Ass't. Instr. in Path., Pennsylvania Med. Sch., 1935-1937; Ass't. Physician, O. P. C., Pennsylvania Hosp., 1936-1937; Ass't. Res. in Med., Duke Hospital, 1937-1938; 1937—

PRESTON SMITH, *Assistant in Clinical Microscopy.*

Assistant in Clinical Microscopy, Duke Medical School; 1932—

MARY HELEN SNIVELY, R.N., Anes., *Instructor in Anesthesia.*

Diploma, Johns Hopkins Hosp. Sch. of Nursing, 1929; Certificate in Anesthesia, Johns Hopkins Hosp., 1930; *Anesthetist, Duke Hospital, 1930—*

JOSEPH BLACKBURN STEVENS, B.S., M.D., *Assistant in Medicine.*

B.S., Davidson, 1932; M.D., Duke, 1935; Int., Jr. Ass't., Ass't. Res. in Path., and Int. and *Assistant Resident in Medicine, Duke Hospital, 1936—*

CHRISTOPHER STUART, JR., M.D., *Assistant in Surgery.*

M.D., McGill, 1934; Int., rotat., and Res. in Path., Montreal Gen'l. Hosp., 1934-1936; Fellow in Private Diagnostic Clinic, and Int. and *Assistant Resident in Surgery, Duke Hospital, 1936—*

JUNE B. THOMAS, A.B., M.D., *Assistant in Student Health.*

A.B., Goucher, 1929; M.D., Johns Hopkins, 1934; Acting Ass't. Surgeon, Pub. Health Serv., July, 1934-Dec., 1935, and Int., Babies Hosp., New York City, Jan., 1936-July, 1937; *Resident Physician, Woman's College, Duke University, 1937—*

SAMUEL EARLE UPCHURCH, B.A., M.D., *Assistant in Surgery.*

B.A. and M.D., Vanderbilt, 1929 and 1933; Int. in Surg., Int., and Ass't. Res. in Med., and *Assistant Resident in Surgery, Duke Hospital, 1933—*

WILLIAM STUART WALLACE, A.B., M.D., *Instructor in Radiology.*

A.B. and M.D., Washington, 1931 and 1935; Int., rotat., George F. Geisinger Hosp., Danville, Pa., 1935-1936; Res. in X-ray, Hurley Hosp., Flint, Mich., 1936-1938; *Assistant Radiologist, Duke Hospital, 1938—*

CHESTER H. WATERS, JR., B.A., M.D., *Assistant in Orthopaedics.*

B.A., Amherst, 1932; M.D., Nebraska, 1936; Ass't. in practice, Omaha, July-Nov., 1936; Int. in Med., Presbyterian Hosp., Chicago, 1936-1938; Res. Surgeon, N. C. Orth. Hosp., Gastonia, July, 1938-Jan., 1939; Exchange Service in Orthopaedics, Univ. of Va. Hosp., Charlottesville, Jan.-July, 1939; *Assistant Resident in Orthopaedics, Duke Hospital, 1938—*

ROBERT WILLIAMS, A.B., M.D., *Assistant in Radiology.*

A.B., Duke, 1931; M.D., Pennsylvania, 1935; Int., rotat., St. Joseph's Hosp., Baltimore, 1935-1936; Int. and Ass't. Res. in Med., and *Assistant Resident in Radiology, Duke Hospital, 1936—*

NANCY BOWMAN WISE, A.B., M.D., *James A. Greene Research Fellow in Medicine and Bacteriology.*

A.B., Mt. Holyoke, 1932; M.D., Yale, 1937; Int. and Ass't. Res. in Med., and *Research Fellow in Medicine and Bacteriology, Duke Hospital, 1937—*

KARL ARDEN YOUNGSTROM, A.B., M.A., Ph.D., *Instructor in Anatomy.*

A.B., M.A. and Ph.D., Kansas, 1930, 1932 and 1937; Instr. in Bact., 1930-1931, and in Anat., Kansas Univ., 1931-1937; 1937—

## STAFF OF DUKE HOSPITAL

### Administrative Committee

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 JUDITH FARRAR, A.B., B.S., *Librarian*.  
 MARY HOEN MULLER, R.N., *Anesthetist*.  
 PERRY GIBSON, A.B., B.S., M.S., *Social Service*.  
 ELMA O. PHILLIPSON, A.B., M.A., *Social Service*.  
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 ELON HENRY CLARK, *Artist*.  
 HENRY FLOYD PICKETT, A.B., *Photographer*.  
 CHRISTIAN ADOLPH LETZING, *Braces and Instruments*.

### Hospital and Public Dispensary Teaching Staff

#### Chiefs of Services

EDWIN PASCAL ALYEA, S.B., M.D., *Urology*.  
 WILLIAM BANKS ANDERSON, A.B., M.D., *Ophthalmology*.  
 BAYARD CARTER, A.B., B.A., M.A., M.D., *Obstetrics and Gynecology*.  
 RAYMOND S. CRISPELL, A.B., M.D., *Neuropsychiatry*.  
 WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D., *Pediatrics*.  
 WATT WEEMS EAGLE, A.B., M.D., *Otolaryngology*.  
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#### Associate Staff

JASPER LAMAR CALLAWAY, B.S., M.D., *Dermatology and Syphilology*.  
 NORMAN FRANCIS CONANT, B.S., A.M., Ph.D., *Mycology*.  
 ERLE BULLA CRAVEN, JR., A.B., M.D., *Medicine*.  
 MACDONALD DICK, A.B., M.A., M.D., *Medicine*.  
 SNOWDEN COWMAN HALL, A.B., M.D., *Medicine*.  
 OSCAR CARL EDVARD HANSEN-PRÜSS, A.B., M.D., *Medicine*.  
 JAMES PAISLEY HENDRIX, B.S., M.A., M.D., *Medicine*.  
 CHRISTOPHER JOHNSTON, A.B., M.D., *Medicine*.

\* On leave, 1938-39.



THOMAS T. JONES, A.B., M.D., *Medicine*.  
 WALTER KEMPNER, M.D., *Medicine*.  
 DONALD STOVER MARTIN, A.B., M.D., *Medicine and Bacteriology*.  
 PAUL PRESSLY MCCAIN, A.B., M.D., *Medicine*.  
 WILLIAM MCNEAL NICHOLSON, A.B., M.D., *Medicine*.  
 EDWARD STEWART ORGAIN, M.D., *Medicine*.  
 ELBERT LAPSLEY PERSONS, A.B., M.D., *Medicine and Dermatology*.  
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 DAVID TILLERSON SMITH, A.B., M.D., *Medicine*.  
 O. NORRIS SMITH, B.A., M.D., *Medicine*.  
 ROBERT WILLIAM GRAVES, B.S., M.A., M.D., *Neurology*.  
 MALCOLM D. KEMP, M.D., *Psychiatry*.  
 JOSEPH M. HITCH, A.B., M.S., M.D., *Dermatology and Syphilology*.  
 GEORGE M. LEIBY, M.P.H., Dr. P.H., M.D., *Syphilology*.  
 DAVID EDWIN PLUMMER, *Syphilology*.  
 MARY ALVERTA POSTON, *Bacteriology*.  
 JOSEPH W. BEARD, B.S., M.D., *Surgery*.  
 HAROLD FINKELSTEIN, B.S., M.D., *Surgery*.  
 CLARENCE ELLSWORTH GARDNER, JR., A.B., M.D., *Surgery*.  
 ROBERT RANDOLPH JONES, JR., A.B., M.D., *Surgery*.  
 GEORGE WILLIAM JOYNER, B.S., M.D., *Surgery*.  
 LENOX DIAL BAKER, M.D., *Orthopaedics*.  
 ROBERT BEVERLY RANEY, A.B., M.D., *Orthopaedics*.  
 WALTER EUGENE DANIEL, B.A., M.D., *Urology*.  
 EDWIN CROWELL HAMBLIN, B.S., M.D., *Obstetrics and Gynecology*.  
 ROBERT ALEXANDER ROSS, B.S., M.D., *Obstetrics and Gynecology*.  
 ANNIE THOMPSON SMITH, A.B., A.M., M.D., *Obstetrics and Gynecology*.  
 WALTER LEE THOMAS, JR., A.B., M.A., M.D., *Obstetrics and Gynecology*.  
 JAY MORRIS ARENA, B.S., M.D., *Pediatrics*.  
 ANGUS MCBRYDE, B.S., M.D., *Pediatrics*.  
 ARTHUR HILL LONDON, JR., A.B., M.D., *Pediatrics*.  
 JEROME SYLVAN HARRIS, A.B., M.D., *Pediatrics*.  
 WILLIAM STUART WALLACE, A.B., M.D., *Radiology*.  
 ROGER DENIO BAKER, A.B., M.D., *Pathology*.  
 CYRUS CONRAD ERICKSON, B.S., B.M., M.D., *Pathology*.  
 DOUGLAS HAMILTON SPRUNT, B.S., M.S., M.D., *Pathology*.  
 HAYWOOD MAURICE TAYLOR, B.S., M.S., Ph.D., *Toxicology*.  
 ANNE YATES, A.B., A.M., Ph.D., *Biochemistry*.  
 NORMAN F. ROSS, D.D.S., *Dentistry*.

### Resident Staff

#### Residents

ISAAC H. MANNING, A.B., North Carolina, 1931; M.D., Harvard, 1935; *Medicine*.  
 HERMAN M. SCHIEBEL, A.B. and M.D., Johns Hopkins, 1929 and 1935; *Surgery*.  
 WILLIAM DEMPSEY FARMER, A.B. and M.D., Duke, 1930 and 1934; *Otolaryngology and Ophthalmology*.  
 LOUIS CARROLL ROBERTS, A.B., Davidson, 1930; M.D., Duke, 1933; *Urology*.  
 EDWARD CHARLES HOLSCHER, A.B. and B.S., Missouri, 1933; M.D., Harvard, 1935; *Orthopaedics*.  
 GIFFORD DE ALTON SEITZ, B.A. and M.D., Oregon, 1928 and 1932; *Obstetrics and Gynecology*.  
 PHILIP BROWER PARSONS, B.S. and M.D., Duke, 1935 and 1936; *Roentgenology*.  
 ROBERT LAWRENCE CRAIG, A.B., Amherst, 1931; M.D., Johns Hopkins, 1935; *Neuropsychiatry*.

#### Assistant Residents

SHERWOOD W. BAREFOOT, B.S., North Carolina, 1936; M.D., Duke, 1938; *Medicine*.

- HAROLD I. HARVEY, A.B., Harvard, 1924; M.D., Duke, 1937; *Medicine*.  
 JOSEPH DAVID HOUGH, B.A., Shepherd, 1931; M.D., Munich, 1937; *Medicine*.  
 WILLIAM HENRY KAUFMAN, B.A., Johns Hopkins, 1934; M.D., Duke, 1937; *Medicine*.  
 VINCE MOSELEY, A.B. and M.D., Duke, 1933 and 1936; *Medicine*.  
 RAYMOND WOODROW POSTLETHWAIT, B.S., West Virginia, 1935; M.D., Duke, 1937; *Medicine*.  
 WILLIAM SCHULZE, B.S., Richmond, 1932; M.D., Duke, 1936; *Medicine*.  
 JOSEPH BLACKBURN STEVENS, B.S., Davidson, 1932; M.D., Duke, 1935; *Medicine*.  
 GEORGE STROUD, B.S. and M.D., Duke, 1936 and 1938; *Medicine*.  
 WILLIAM HENRY BRIDGERS, B.S. and M.D., Duke, 1936; *Surgery*.  
 RICHARD VAN FLETCHER, B.S., Georgia, 1929; M.D., Johns Hopkins, 1933; *Surgery*.  
 LEO CLAY HARRIS, JR., M.D., Tennessee, 1934; *Surgery*.  
 DURWARD LEE LOVELL, M.D., Duke, 1936; *Surgery*.  
 WILLIAM HENRY PETTUS, JR., B.S., Richmond, 1933; M.D., Cornell, 1937; *Surgery*.  
 WILL CAMP SEALY, B.S. and M.D., Emory, 1933 and 1936; *Surgery*.  
 CHRISTOPHER STUART, JR., M.D., McGill, 1934; *Surgery*.  
 SAMUEL EARLE UPCHURCH, B.A. and M.D., Vanderbilt, 1929 and 1933; *Surgery*.  
 MILO FRITZ, A.B. and M.D., Columbia, 1931 and 1934; *Otolaryngology and Ophthalmology*.  
 RALPH A. ARNOLD, B.A., Rochester, 1932; M.D., Buffalo, 1936; *Otolaryngology and Ophthalmology*.  
 CHESTER H. WATERS, JR., B.A., Amherst, 1932; M.D., Nebraska, 1936; *Orthopaedics*.  
 ELEANOR BEAMER EASLEY, B.A., Idaho, 1928; M.A., Iowa, 1929; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 EDWIN MACRAE RUCKER, A.B., Randolph-Macon, 1927; M.D., Duke, 1934; *Obstetrics and Gynecology*.  
 LOUIS PLATT, A.B. and M.D., Iowa, 1930 and 1936; *Pediatrics*.  
 WILLIAM ALEXANDER MACCOLL, B.A., Amherst, 1932; M.D., Duke, 1938; *Pediatrics*.  
 DAVID WILLIAM MARTIN, B.S. and M.D., Duke, 1937; *Pediatrics*.  
 EUGENE WILLARD ARNETT, JR., M.D., Virginia, 1937; *Student Health*.  
 JUNE U. GUNTER, A.B., North Carolina, 1931; M.D., Jefferson Medical College, 1936; *Pathology*.  
 FLOYD KINZER HURT, M.D., Virginia, 1935; *Röntgenology*.  
 ROBERT WILLIAMS, A.B., Duke, 1931; M.D., Pennsylvania, 1935; *Röntgenology*.  
 EDWIN TYSON RICKETTS, B.S. and M.D., Duke, 1935 and 1936; *Biochemistry*.

#### Internes

- RICHARD RUTLEDGE CARTER, M.D., Duke, 1938; *Medicine*.  
 WILLIAM REID HAAS, B.S. and M.D., Duke, 1938; *Medicine*.  
 ARTHUR HARVEY JOISTAD, JR., A.B. and B.S., North Dakota, 1933 and 1935; M.D., Duke, 1937; *Medicine*.  
 CONDIT BREWER VAN ARSDALL, JR., A.B., Kentucky Wesleyan, 1936; M.D., Duke, 1937; *Medicine*.  
 HARRY LEONARD DEIN, A.B. and M.D., Duke, 1933 and 1937; *Surgery*.  
 CHARLES EDGAR HAINES, JR., M.D., Duke, 1937; *Surgery*.  
 ALFRED FAXON HENDERSON, M.D., Duke, 1937; *Surgery*.  
 WILLIAM FREDWIN HOLLISTER, M.D., Duke, 1938; *Surgery*.  
 ARTHUR G. JAMES, B.A., M.S. and M.D., Ohio State, 1934 and 1937; *Surgery*.  
 WALTER RELFE NEWBERN, B.S. and M.D., Duke, 1933 and 1937; *Surgery*.  
 RUSSELL BEVERLEY RAY, B.A. and M.D., Vanderbilt, 1935 and 1938; *Surgery*.  
 WARNER LEE WELLS, M.D., Duke, 1938; *Surgery*.  
 JAMES GRIFFITH WHILDIN, B.S. and M.D., Duke, 1937; *Surgery*.  
 ROGER G. WINDSOR, A.B., Cornell, 1935; M.D., Cornell, 1938; *Surgery*.



- ROBERT CARSON FUGATE, M.D., Duke, 1937; *Otolaryngology and Ophthalmology*.  
 WILLIAM BENTLY POTTER, A.B., B.S. and M.D., Nebraska, 1937; *Otolaryngology and Ophthalmology*.  
 LEON RICHARD CULBERTSON, B.S. and M.D., Virginia, 1932 and 1936; *Urology*.  
 WALTER DARLINGTON HASTINGS, JR., M.D., Duke, 1938; *Orthopaedics*.  
 TROGLER FRANCIS ADKINS, M.D., Duke, 1935; *Obstetrics and Gynecology*.  
 CYRUS LEIGHTON GRAY, JR., B.S., High Point College, 1933; M.D., Duke, 1937; *Obstetrics and Gynecology*.  
 ALBERT FRANCIS LEE, M.D., Duke, 1937; *Obstetrics and Gynecology*.  
 NELSON MORTIMER WEBSTER, M.D., Duke, 1937; *Obstetrics and Gynecology*.  
 NORBORNE BERKELEY POWELL, M.D., Baylor, 1938; *Endocrinology*.  
 JOHN RILEY BLACK, JR., B.S. and M.D., Duke, 1938; *Obstetrics and Pediatrics*.  
 ALMON RUFUS CROSS, M.D., Duke, 1938; *Obstetrics and Pediatrics*.  
 PEI-KUANG LI, M.D., Cheeloo University, 1930; *Pediatrics*.  
 LAURA EUGENIA ROSS, A.B., North Carolina, 1934; M.D., Pennsylvania, 1938; *Pediatrics*.  
 KARL SHEPARD, B.S., Georgia, 1930; M.D., Harvard, 1935; *Pediatrics*.  
 CHARLES WOODROW STYRON, B.S., North Carolina State; M.D., Duke, 1938; *Pediatrics*.  
 KARL SHEPARD, B.S., Georgia, 1930; M.D., Harvard, 1935; *Pediatrics*.  
 ELIZABETH MARY BALAS, B.S., Pittsburgh, 1936; M.D., Duke, 1938; *Pathology*.  
 ATTICUS JAMES GILL, M.D., Duke, 1938; *Pathology*.  
 JOHN LEWIS SMOOT, B.S., Randolph-Macon, 1933; M.D., Johns Hopkins, 1937; *Pathology*.  
 JAMES MAZYCK WILSON, A.B., Princeton; M.D., South Carolina, 1937; *Pathology*.  
 WILLIAM ALPHONSO WITHERS, A.B., North Carolina, 1932; M.D., Rush, 1936; *Private Diagnostic Clinic*.  
 PAUL LELAND WILLIAMS, B.S., Washington, 1933; M.D., Oregon, 1937; *Private Diagnostic Clinic*.  
 WILLARD PHELPS EARNGEY, JR., A.B., Duke, 1938; *Administration*.  
 REUBEN HOLMES GRAHAM, JR., B.S., North Carolina, 1938; *Administration*.  
 HORACE EMERSON HAMILTON, B.S., North Carolina, 1937; *Administration*.  
 DEWITT WRIGHT, B.S. and J.D., Northwestern, 1923 and 1926; *Administration*.

# COMMITTEES OF THE SCHOOL OF MEDICINE

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\* On leave, 1938-39.

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Spokane, Washington.....	A. A. MATTHEWS
Huntington, West Virginia.....	GEORGE M. LYON

## GENERAL STATEMENT

Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and also is a member of the Association of the American Medical Colleges. On September 29, 1938, two hundred and fifty-seven students were enrolled.

## FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 456 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology, neurology and psychiatry, has 111 ward beds; *surgery*, including urology, otolaryngology, ophthalmology and orthopaedics, 105 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; and *pediatrics*, 52. There are 82 private rooms and semi-private cubicles, 7 operating rooms, 4 obstetrics delivery rooms, and accommodations for a resident staff of 71. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internship and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. One hundred and fourteen thousand individuals have been examined, diagnosed, and treated up to January 1, 1939. Fifteen per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from over 98 of the 100 counties in North Carolina and from 34 other states. The average distance traveled by the patient is more than 70 miles.

**PUBLIC WARD PATIENTS.** Duke Hospital cannot give charity treatment to all who apply; therefore patients whose incomes are less than \$15 per week should apply to the Public Dispensary Division of the Duke Clinic on the days and hours listed below. The hospital fees consist of four classes of flat daily rates (private, semi-private, semi-charity, and charity), which cover all hospital costs, including those usually charged as extras, thereby making it possible to estimate, in advance, the probable cost of hospitalization and to adjust the bill to the patient's resources. This policy of basing the rate upon the amount the patient can pay, rather than on the actual cost, has enabled many, who, under the former system, unnecessarily were objects of charity, to maintain their self-respect by contributing a fixed sum within their means. The actual cost to the Hospital

for public care is over \$5.00 daily; but in order to meet the greatly increased demand for charity work, Duke Hospital adopted the co-operative plan of paying half the cost, provided the patient's local welfare department co-operated by paying the other half. This is in accordance with Mr. Duke's plan that the communities share, with the Duke Endowment, the burden of charity patients, instead of either carrying all of it. Although 88.8 per cent of the patients pay less than cost, the revenue from patients, their friends, the counties and the Duke Endowment provides approximately half of their expenses. By having every patient contribute in accordance with his means, the balance, which Duke Hospital gives in charity or less than cost service, has been spread over a larger number of people. Instead of giving complete and pauperizing charity care to 4,000 patients, the Hospital has been able to assist approximately 10,000 individuals annually to obtain medical care for which they could not pay the full cost.

**PRIVATE PATIENTS.** Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

**SCHEDULE OF THE PUBLIC DISPENSARY DIVISION OF THE DUKE CLINIC.** Closed on Saturdays, Sundays, and holidays. Patients must register at the times listed.

Registration hours: White patients, 12:15 P.M., and colored patients at 1:00 P.M., unless otherwise noted below.

General Medicine	} <i>Monday, Tuesday, Wednesday, Thursday and Friday.</i>
General Surgery	
Obstetrics and Gynecology	
(Women's Diseases)	
Children's Diseases	
Ear, Nose and Throat	
Bone and Joint Diseases	
Tumors	

Urinary and Kidney Diseases: *Tuesday and Friday.*

Cystoscopy: *Monday, Wednesday, and Friday.*

Dentistry: *Monday and Wednesday.*

Eye: *Tuesday, Thursday, and Friday.*

Syphilis: *Thursday, Children at 9:00 A.M., and Adults at 6:00 P.M.*

Asthma and Hay Fever: *Tuesday at 9:00 A.M. and Friday at 1:00 P.M.*

Diabetes	} <i>Tuesday at 9:00 A.M.</i>
Infant Feeding	

(Patients seen by previous appointment only)

Dermatology: *Wednesday at 9:00 A.M.*

Fracture: *Friday at 9:00 A.M.*

Pneumothorax (chest and tubercular): *Thursday at 9:00 A.M.*

(Patients seen by previous appointment only)

Endocrine (sterility, menstrual disorders, etc.): *Tuesday, Wednesday, and Thursday 8:30-12:00 A.M.*

(Patients seen by previous appointment only)

The Public Dispensary charge is from \$1.00 to \$5.00 for the first visit to any department, plus the actual cost of X-rays and other materials used. For the return visits, to the regular clinics, the rate is from twenty-five cents to seventy-five cents for consultation or completion of examination; and \$1.00 for patients who have not been instructed to return, but do so on their own initiative. In order to co-operate with the medical profession, anyone who wishes to attend the Public Dispensary should consult, and bring a letter from his or her own physician. All patients accompanied by their physicians are admitted free to the Public Dispensary Division.

The general policy of admitting patients to the Wards and Public Dispensary is to consider carefully their financial and social status; income and size of family, special responsibilities and the probable cost of treatment, all being weighed in determining admission. A married patient, for instance, with an income of less than \$15 per week is considered admissible to the Public Wards or Public Dispensary for ordinary conditions; the income limit, of course, varying according to the other factors which affect the patient's financial status. Those who are able to pay the ordinary fees of consultants and specialists are not admitted to the Public Dispensary, but may make arrangements through their own physicians for examinations by any member of the Hospital Staff or in the Private Diagnostic Clinic.

#### PRIVATE DIAGNOSTIC DIVISION OF THE DUKE CLINIC

This division was organized to co-ordinate the diagnostic studies, and to give better care for the complicated problems arising in the examination of private patients. The Clinical Staff of Duke Hospital and School of Medicine forms the professional staff of this Clinic, while the financial side is handled by a business manager. The offices and examining rooms are in Duke Hospital, and all the laboratory and diagnostic facilities of the Hospital and School of Medicine are utilized by the Clinic. A complete diagnostic survey usually requires from one to four days, and the charges generally range from \$15 to \$50, the amount depending on the work required and on the financial condition of the patient. As soon as each examination has been completed a full report describing the results of the diagnostic studies is forwarded to the physician referring the patient.

#### SCHOOL OF NURSING

\*BESSIE BAKER, R.N., B.S., *Dean of the School of Nursing*

The next class of students will be admitted to the Duke University School of Nursing on September 26, 1939, but applications will be con-

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\* On leave, 1938-39.



sidered at any time after January 1, 1939. The entrance requirements are intelligence, character, and graduation from an acceptable high school. In 1940 one year of college work in addition will be required, and in 1941 two years. For details, the Bulletin of the School of Nursing should be consulted. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The tuition is \$100 per year. Application forms and bulletins may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C.

Duke University grants the degree of Bachelor of Science in Nursing to women who have completed successfully two years of college work (60 semester hours) in Duke University or another approved university or college, in addition to the three-year course in the Duke University School of Nursing, provided they have had certain specified college courses. The sixty semester hours of college work may at present be completed either before or after the three-year course in the School of Nursing but not during it. Students entering in 1940 must complete one year, and those entering in 1941 must complete both years before admission to the School of Nursing. For details the Bulletin of the School of Nursing should be consulted.

#### SCHOOL OF DIETETICS

ELSIE W. MARTIN, A.B., M.S., *Professor of Dietetics.*

JANE HEREFORD, B.S., *Administrative Dietitian.*

FRANCES CAMPBELL, B.S., *Therapeutic Dietitian.*

ADA HOWE, B.S., *Therapeutic Dietitian.*

EFFIE C. BOGGESE, B.S., *Administrative Dietitian.*

GLADYS C. HASS, B.S., *Administrative Dietitian.*

In addition to the training of medical students and nurses in dietetics, six student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patient according to the doctor's orders. In addition, the student dietitians are required to complete the courses in biochemistry, nutrition and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first Monday in September, but applications for appointments should be made before February 1. No tuition is charged, but a registration fee of \$10 is payable at the time of appointment; maintenance is provided.



### Hospital Administration

F. V. ALTVATER, *Superintendent.*

F. R. PORTER, *Assistant Superintendent.*

H. C. MICKEY, *Assistant Superintendent.*

C. H. COBB, *Business Manager Medical Division.*

E. S. RAPER, *Business Manager Surgical Division.*

Three or four internships in hospital administration are available to university graduates, whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of one month are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The internes are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

### ANESTHESIA

MARY MULLER, R.N., *Instructor in Anesthesia.*

MARY H. SNIVELY, R.N., *Instructor in Anesthesia.*

ELIZA GOODMAN, R.N., *Assistant in Anesthesia.*

ALMA S. HAMM, *Assistant in Anesthesia.*

Duke Hospital offers to registered nurses from accredited schools of nursing a twelve months' course in anesthesia, which includes the theory and practice of anesthesia. The tuition fee of \$100 covers all expenses of the course, including maintenance. Applications may be sent to Miss Mary Muller, Duke Hospital, Durham, N. C.

### MEDICAL SOCIAL SERVICE

PERRY GIBSON, A.B., B.S., M.S., *Instructor in Medical Social Service.*

ELMA O. PHILLIPSON, A.B., M.A., *Assistant in Medical Social Service.*

MARIA FERRO, A.B., *Assistant in Medical Social Service.*

Case work service is offered to patients referred by physicians within the Hospital, by outside social service agencies, or upon the patient's own application. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies. The division also provides lectures, consultations and discussions for students of medicine and nursing, and serves as an agency for supervised field work experience for students of the graduate school of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Division, Duke Hospital, Durham, N. C.

### RECORD LIBRARY

JESSIE HARNED, R.R.L., *Medical Records Librarian*

A course for the training of Medical Records Librarians has been instituted at Duke Hospital. This course, which has been given full

approval by the American Association of Medical Records Librarians, includes all details of the theory and practice of clinical record library methods. The length of the training is eleven months. The tuition fee is \$100 and does not include maintenance. Applications may be made to the Medical Records Librarian, Duke Hospital, Durham, N. C.

### MEDICAL SECRETARIAL SCHOOL

Duke Hospital offers a course, of approximately four months, for medical secretaries, which gives them thorough training in the technicalities of medical secretarial work, medical terminology, medical shorthand, and ediphone transcription. The completion of a secretarial or business course is required for admission. A small remuneration is given. After this medical secretarial training, those who have proved capable are sometimes placed in positions in the Hospital as vacancies occur. Application should be made to the Medical Records Librarian, Duke Hospital, Durham, N. C.

### POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties which are held from 9 A.M. to 12:30 P.M. each Saturday and at the clinical-pathological conferences at 5 P.M. on Wednesdays. Postgraduate internships, for one or two weeks, are available to physicians in practice. A fee of \$10 per week is charged for room and board. A three-day postgraduate symposium will be given in October, 1939. Further information may be obtained by writing to the head of the department concerned or to the Dean.

### INTERNSHIPS AND RESIDENCIES

Internships of one year's duration with room, board, laundry, and uniforms furnished, but without salary, are available in *surgery* (including general surgery, urology, and orthopaedics), in *orthopaedics*, in *urology*, in *otolaryngology*, in *dentistry*, in *obstetrics* and *gynecology*, in *endocrinology*, in *pediatrics*, and in *pathology*, commencing each July and September.

*Medical* internships (including dermatology, neurology, and psychiatry) are of two years' duration, the interne rising by progressive stages of four months each to senior house officer. After one year's service the interne has the rank and emoluments of an assistant resident. Services begin in July, November, and March.

Application blanks for all internships, which must be returned by December 1, may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C. Graduates of any Class A medical school are eligible for internships.

After the completion of an internship in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, neuropsychiatry, orthopaedics, urology, otolaryngology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the residency in the various departments or subdepartments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance. Applications should be made to the head of the department concerned.

The Hospital and School of Medicine are an integral part of the Duke University campus and its educational, recreational, and athletic facilities are available for the Resident Staff.

The present Resident Staff of seventy-eight consists of a resident, six assistant residents, and seven internes in *medicine*; a resident, eight assistant residents, and ten internes in *surgery* (the eight surgical assistant residents are assigned in rotation to *general surgery*, *pathology* and *orthopaedics*); a resident, two assistant residents, and two internes in *otolaryngology and ophthalmology*; a resident, two assistant residents, and six internes in *obstetrics and gynecology*; an interne in *endocrinology*; two assistant residents and five internes in *pediatrics*; a resident and two assistant residents in *roentgenology*; a resident, an assistant resident and an interne in *orthopaedics*; a resident and an interne in *urology*; a resident in *neuropsychiatry*; an assistant resident in *neurology*; an assistant resident and four internes in *pathology*; an assistant resident in *biochemistry*; two fellows in the *Private Diagnostic Clinic*; one interne in *dentistry*; an assistant resident on the *Student Health Service*, and four internes in *Administration*.

### LIBRARY

*"To study the phenomena of disease without books is to sail an uncharted sea, while to study books without patients is not to go to sea at all."*—SIR WILLIAM OSLER.

In addition to the general library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 491,252 volumes available for medical students, Duke Hospital Library contains 35,828 volumes of American and foreign medical literature and subscribes to 342 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:20 A.M. to 11:00 P.M. for the students, nurses, staff, and medical profession.

### MEDICAL CARE

JOSEPH A. SPEED, *Physician in Charge*.  
EUGENE W. ARNETT, JR., *Assistant Physician*.  
JUNE B. THOMAS, *Assistant Physician*.

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated medical students of the University for the health fee of \$3.33 per quarter. This service is under the direc-

tion of the University Physician with the co-operation of the Staff of Duke Hospital. It includes hospitalization (limited to thirty days), medical and surgical care, drugs, dressings, X-ray studies, and ward but not special nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes and treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

### STUDENT GOVERNMENT

The members of the student body elect an Honor Council in which each class is represented. It is the duty of the Honor Council to hear all cases involving breaches of conduct on the part of members of the student body. All new students entering this School are required to comply with this system of government.

### THE DUKE UNIVERSITY MEDICAL SOCIETY

This society was organized in 1937 to facilitate the presentation of current medical problems before the students, the Staff, and other interested persons in the University and professional community. Meetings are held monthly during the academic year, and the programs usually consist of short case presentations and discussions followed by a description of some staff or student research project. Occasionally guest speakers from other institutions are invited to participate in the programs.

### APPLICATION FOR ADMISSION

Application forms may be obtained by writing to the Committee on Admission, Duke University School of Medicine, Durham, N. C. They must be typed, a 2 x 2½ inch recent photograph attached, and the application returned to the Committee on Admission as soon as possible. Applications are considered in the order received. If the information obtained is satisfactory, a personal interview with the Committee on Admission or a Regional Representative is arranged for the applicant. The candidate then is notified as soon as possible whether he has been accepted or declined; if accepted, the student must send a deposit of \$50 within two weeks to insure his enrollment. This money is applied toward the tuition. First-year students are admitted only at the beginning of the Autumn Quarter, but applications should be received by the Committee on Admission prior to March 15; they will be considered and a decision in regard to admission will be made as soon as possible. The number of students in each class is limited to 75, but only those students will be accepted who give promise of being a credit to the School and the med-

ical profession. Women are received on the same terms as men. Students who transfer from other medical schools may be admitted into any quarter for which their previous training has fitted them. The Committee on Admission will determine the status of each such student on his own merits.

### REQUIREMENTS FOR ADMISSION

*"I request that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination and application evincing a wholesome and real ambition for life."*—JAMES B. DUKE.

*Intelligence and character are the essential qualifications for admission.*

In addition, each candidate must have the following preparation, which includes the minimal requirements for Class A medical schools:

1. At least three years of college work (90 semester hours), including:
2. *Biology*: At least one year (12 semester hours, one half of which must be laboratory work, and must include training in embryology). A course in comparative anatomy also is recommended.
3. *Chemistry*: At least two years (10 semester hours of inorganic chemistry including short or preliminary courses in qualitative and quantitative analysis, and 6 semester hours of organic chemistry; one half of each course must be laboratory work). These represent the minimal requirements in chemistry. Additional courses in analytical and physical chemistry are desirable. Also see Biochemistry, page 34.
4. *Physics*: At least one year (10 semester hours, one half of which must be laboratory work).
5. *English*: At least two years (12 semester hours).
6. *Mathematics*: At least one year (6 semester hours; a working knowledge of logarithms is essential, and one of calculus is desirable).
7. *German*: A reading knowledge of scientific German is highly desirable.
8. Applicants are required to take the aptitude tests of the Association of American Medical Colleges unless specifically excused by the School. These tests are given at most of the colleges and universities in December. Selection is based on the *quality* rather than the *quantity* of preparation.

### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After completion of ninety semester hours in Duke University or other approved university or college, and six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional



college work, and students who have a Bachelor's degree are not eligible, but all students in good standing are encouraged to undertake such investigative work as they may elect when approved by the Curriculum Committee and the head of the department in which they wish to work.

#### **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE**

A certificate is conferred on those who, after fulfilling all the requirements for entrance, have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine. The diploma for the degree of Doctor of Medicine is given after the completion of two years in satisfactory training in a hospital or laboratory acceptable to the Executive Committee.

## DEPARTMENTS OF INSTRUCTION

### Anatomy

F. H. SWETT, *Professor of Anatomy.*

D. C. HETHERINGTON, *Associate Professor of Anatomy in Charge of Histology and Neurology.*

W. H. HOLLINSHEAD, *Associate in Anatomy.*

J. W. EVERETT, *Associate in Anatomy.*

G. J. BAYLIN, *Instructor in Anatomy.*

R. C. MACCARDLE, *Instructor in Anatomy.*

K. A. YOUNGSTROM, *Instructor in Anatomy.*

E. B. DUNLAP, JR., *Assistant in Anatomy.*

Five days per week during the Autumn Quarter, and two days per week during the Winter Quarter of the first year are devoted to the courses of instruction in gross human anatomy, histology, and neurology *required* of all entering students. Further work in these subjects and advanced studies in various other branches of anatomy may be undertaken during the student's free time. Prospective candidates for *elective* work should discuss their wants with the member of the Staff in charge of the particular field in which work is requested, because only a small number can be accommodated in each group. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

### Biochemistry

W. A. PERLZWEIG, *Professor of Biochemistry.*

H. M. TAYLOR, *Associate Professor of Biochemistry and Toxicology.*

MARY L. C. BERNHEIM, *Assistant Professor of Biochemistry.*

ANNE YATES, *Assistant Professor of Biochemistry.*

T. B. COOLIDGE, *Associate in Biochemistry.*

W. M. NICHOLSON, *Associate in Medicine and Biochemistry.*

J. S. HARRIS, *Associate in Pediatrics and Biochemistry.*

HANS NEURATH, *Research Associate in Biochemistry.*

J. R. KLEIN, *Assistant in Biochemistry.*

EDWARD D. LEVY, *Assistant in Biochemistry.*

The *required* course in general biochemistry for first-year students is given in the Autumn and Winter Quarters. One morning each week in the Autumn Quarter is devoted, in discussion groups, to the correlation of the fundamental facts and theories of physical and organic chemistry with the chemistry of living organisms. In the Winter Quarter three lectures and four laboratory periods per week, supplemented by systematic reading and weekly conferences in small groups, are devoted to a more intensive study of the chemistry of the physiological processes of digestion and absorption, circulation and respiration, acid-base and salt equilibrium metabolism including quantitative urine and blood analyses.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the



topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

*Electives.* In connection with the course given in the Spring Quarter for second-year students a survey of *pathological and clinical chemistry* is presented. In this course are covered abnormalities of: Protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

*Biochemical Research.* The facilities of the department, including various types of research equipment and the clinical material of the blood chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

*Seminar in Toxicology.* A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc. Autumn or Spring Quarters by arrangement.

*Laboratory Detection of Common Poisons.* A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings. Autumn or Spring Quarters by arrangement.

*Chemistry of the Colloidal State.* A two-hour seminar is given weekly throughout the autumn, winter, and spring quarters.

### Physiology, Pharmacology, and Nutrition

G. S. EADIE, *Professor of Physiology and Pharmacology.*

F. D. MCCREA, *Associate Professor of Physiology and Pharmacology.*

FREDERICK BERNHEIM, *Associate Professor of Physiology and Pharmacology.*

W. J. DANN, *Associate Professor of Physiology and Nutrition.*

MACDONALD DICK, *Associate in Medicine, Physiology and Pharmacology.*

C. JOHNSTON, *Assistant Professor of Medicine and Physiology.*

J. E. MORGAN, *Instructor in Roentgenology and Physiology.*

H. I. KOHN, *Instructor in Physiology and Pharmacology.*

The *required* courses consist of (a) a lecture course in physiology, (b) a lecture course in pharmacology, (c) a lecture course on the elements of nutrition, supplemented by demonstrations of some biological and chemical methods employed in nutrition studies, (d) a laboratory course in physiology and pharmacology, and (e) a seminar in which the problems arising in the laboratory and in the student's reading are discussed.

*Elective* courses covering particular aspects of these subjects, including pathological physiology and research in special fields, are available.

*Research.* A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

### Pathology

W. D. FORBUS, *Professor of Pathology.*

D. H. SPRUNT, *Associate Professor of Pathology.*

R. D. BAKER, *Assistant Professor of Pathology.*

C. C. ERICKSON, *Instructor in Pathology.*

J. U. GUNTER, *Assistant in Pathology.*

C. M. LIGHTNER, *Research Assistant in Pathology.*

The *required* course in general pathology for second-year students is given in the Autumn and Winter Quarters. The class is divided into small groups, one instructor and an assistant being assigned to each group. For the purpose of teaching the gross pathological alterations of tissue, the museum material, which consists of complete cases preserved as units, has been classified into well-organized groups, such as obstructions, diseases due to animal parasites, tumors, etc., each group of materials being placed in a separate laboratory. The various student groups work with these groups of material in rotation. The microscopic aspects of pathological processes are studied by the students at the same time the gross pathological features of the disease are being considered. Physiological, chemical and bacteriological phases of the various disease processes are presented to the student by constant reference to the autopsy protocols and clinical studies of the cases which are being considered by the groups, and by visits to the Hospital wards. Once each week a clinic is presented for the class; the subjects of the clinics are cases from the Hospital which illustrate pathological processes being currently studied. Lectures on general subjects of wide application are given in co-ordination with the museum case studies. Attendance at autopsies is required of the students of the second year, the class being divided into small groups which are called in turn. The group members are required to follow all studies of the cases which they see and to prepare their own complete records. Cases thus prepared are presented by the students before the entire class under the direction of the Staff.

*Elective* courses in pathology in the Spring Quarter are available for a limited number of students who have completed the course in general pathology. Research facilities are provided in the department for students who are competent to undertake investigation.

On Wednesdays at 5 P.M., during the Autumn, Winter, and Spring Quarters, a clinical-pathological conference is held in co-operation with the staffs of the clinical departments. While this conference is designed especially for the Hospital Staff, it is open to all members of the medical profession and students of medicine. Students of the second, third, and fourth years routinely attend this conference. A gross diagnostic clinical-pathological conference on current autopsies is held weekly in collaboration with the clinical departments. This conference is required of the students of the third and fourth years.

### Bacteriology and Parasitology

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

A. S. PEARSE, *Professor of Zoology.*

H. W. BROWN, *Professor of Preventive Medicine and Public Health.*

D. S. MARTIN, *Associate Professor of Bacteriology and Associate in Medicine.*  
 N. F. CONANT, *Associate in Bacteriology and Mycology.*  
 MARY A. POSTON, *Instructor in Bacteriology.*  
 WILLIAM SCHULZE, *Assistant in Medicine and Bacteriology.*  
 N. B. WISE, *James A. Greene Research Fellow in Medicine and Bacteriology.*

*Bacteriology, Mycology, Immunology, and Parasitology.* The required course is given in the Autumn Quarter of the second year. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. We are especially interested in the student's having a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization. *Research Bacteriology.* Opportunities for original investigations are afforded a few specially qualified students. *Clinical Bacteriology.* During their clinical clerkships on medicine (one quarter each for Junior and Senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinics.

### Medicine

F. M. HANES, *Florence McAlister Professor of Medicine.*  
 D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*  
 R. S. CRISPELL, *Associate Professor of Neuropsychiatry.*  
 J. M. RUFFIN, *Associate Professor of Medicine in Charge of Physical Diagnosis.*  
 O. C. E. HANSEN-PRÜSS, *Associate Professor of Medicine in Charge of Clinical Microscopy.*  
 CHRISTOPHER JOHNSTON, *Assistant Professor of Medicine and Physiology.*  
 D. S. MARTIN, *Assistant Professor of Bacteriology and Associate in Medicine.*  
 E. L. PERSONS, *Associate in Medicine and Dermatology.*  
 WALTER KEMPNER, *Associate in Medicine.*  
 MACDONALD DICK, *Associate in Medicine, Physiology and Pharmacology.*  
 E. S. ORGAIN, *Associate in Medicine.*  
 R. W. GRAVES, *Associate in Neurology.*  
 J. P. HENDRIX, *Associate in Medicine.*  
 W. M. NICHOLSON, *Associate in Medicine and Biochemistry.*  
 SUSAN G. SMITH, *Associate in Medicine.*  
 J. L. CALLAWAY, *Associate in Medicine, Dermatology and Syphilology.*  
 J. A. HITCH, *Instructor in Dermatology and Syphilology.*  
 D. E. PLUMMER, *Instructor in Syphilology.*  
 M. D. KEMP, *Instructor in Psychiatry.*  
 T. T. JONES, *Instructor in Medicine.*  
 S. C. HALL, *Instructor in Medicine.*  
 O. N. SMITH, *Instructor in Medicine.*  
 E. B. CRAVEN, JR., *Instructor in Medicine.*  
 BOWMAN WISE, *James A. Greene Research Fellow in Medicine and Bacteriology.*  
 RAYMOND REISER, *Anna H. Hanes Research Fellow in Medicine.*  
 I. H. MANNING, *Instructor in Medicine.*

R. L. CRAIG, *Instructor in Neuropsychiatry.*  
D. W. LESTER, *Instructor in Neuropsychiatry.*  
G. T. HARRELL, JR., *Assistant in Medicine.*  
H. I. HARVEY, *Assistant in Medicine.*  
VINCE MOSELEY, *Assistant in Medicine.*  
WM. SCHULZE, *Assistant in Medicine.*  
J. P. STEVENS, *Assistant in Medicine.*  
R. W. POSTLETHWAIT, *Assistant in Medicine.*  
W. H. KAUFMAN, *Assistant in Medicine.*  
S. W. BAREFOOT, *Assistant in Medicine.*  
J. D. HOUGH, *Assistant in Medicine.*  
GEORGE STROUD, *Assistant in Medicine.*  
I. T. REAMER, *Instructor in Pharmacy.*  
PRESTON SMITH, *Assistant in Clinical Microscopy.*

*Clinical Microscopy* is given in the Winter Quarter of the second year. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluid, sputum, transudates and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and Senior students are given opportunities for special work and for investigation.

*Physical Diagnosis and Introduction to Clinical Medicine.* This course, in the Spring Quarter of the second year, consists of instruction in history taking, physical examination, and the application of the preclinical sciences to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

*Junior Medicine.* Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M., on Mondays, Wednesdays, and Fridays. During the Autumn, Winter and Spring Quarters, medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M., and on Wednesdays, during the Summer Quarter.

*Senior Medicine.* Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

*Dermatology and Syphilology.* Instruction is offered each quarter to Senior students consisting of lectures, seminars, and study and treatment of patients.

*Neuropsychiatry.* Instruction is started in the second year with a course that covers psychobiology and general psychopathology, and which serves as a bridge between the student's work in academic psychology and clinical neuropsychiatry. This course is concerned with the modern conception of the personality, its neurophysiological basis, growth and development, and traits, normal and abnormal. The problems of intel-



ligence, intelligence testing, and mental deficiency are discussed. The students are trained in neuropsychiatric method and examination, and they make a psychiatric or personality make-up examination upon themselves. Instruction in neuropsychiatry for Junior and Senior students is continued by weekly lecture-clinics during the Autumn, Winter, and Spring Quarters. In the Autumn Quarter the emphasis is on neurology; in the Winter and Spring Quarters the clinical study of psychiatry is developed. Mental disorders in general are considered, and the major psychoses are specifically outlined. The didactic work in neuropsychiatry is supplemented by clinics and by the student's actual experience in handling such psychiatric problems as occur on the wards and in the Public Dispensary of the Hospital. The problems of the psychoneuroses, psychotherapy, and mental hygiene are emphasized. In addition, clinics are held in the North Carolina State Hospital, Raleigh, N. C. Special and elective work in psychiatry is offered to students who are especially interested. Before graduation, it is sought to give the student a workable conception of the individual as a whole, the psychobiological unit, that may be applied in practice.

### Surgery

DERYL HART, *Professor of Surgery.*

C. E. GARDNER, JR., *Associate Professor of Surgery.*

R. R. JONES, JR., *Assistant Professor of Surgery.*

J. W. BEARD, *Assistant Professor of Surgery in Charge of Experimental Surgery.*

E. P. ALYEA, *Associate Professor of Surgery in Charge of Urology.*

W. B. ANDERSON, *Associate Professor of Surgery in Charge of Ophthalmology.*

W. W. EAGLE, *Associate Professor of Surgery in Charge of Otolaryngology.*

\*A. R. SHANDS, JR., *Associate Professor of Surgery in Charge of Orthopaedics.*

BARNES WOODHALL, *Assistant Professor of Surgery in Charge of Neurosurgery.*

HAROLD FINKELSTEIN, *Associate in Surgery.*

WALTER MARX, *Research Associate in Surgery and Biochemistry.*

W. R. BRYAN, *Research Associate in Experimental Surgery.*

R. V. FLETCHER, *Instructor in Surgery.*

G. W. JOYNER, *Instructor in Surgery.*

H. M. SCHIEBEL, *Instructor in Surgery.*

L. D. BAKER, *Instructor in Orthopaedics.*

R. B. RANEY, *Instructor in Orthopaedics.*

E. C. HOLSCHER, *Instructor in Orthopaedics.*

W. E. DANIEL, *Instructor in Urology.*

L. C. ROBERTS, *Instructor in Urology.*

W. D. FARMER, *Instructor in Otolaryngology.*

G. B. FERGUSON, *Instructor in Bronchoscopy.*

T. W. ATWOOD, *Associate in Dentistry.*

N. F. ROSS, *Instructor in Dentistry.*

W. H. BRIDGERS, *Assistant in Surgery.*

L. C. HARRIS, JR., *Assistant in Surgery.*

D. L. LOVELL, *Assistant in Surgery.*

W. H. PETTUS, *Assistant in Surgery.*

W. C. SEALY, *Assistant in Surgery.*

CHRISTOPHER STUART, *Assistant in Surgery.*

S. E. UPCHURCH, *Assistant in Surgery.*

MILO FRITZ, *Assistant in Otolaryngology.*

\* On leave, 1937-38.

R. A. ARNOLD, *Assistant in Otolaryngology.*

C. H. WATERS, JR., *Assistant in Orthopaedics.*

*General Surgery.* In the Spring Quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the technique of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M. on Tuesdays and Fridays, and during the Autumn, Winter and Spring Quarters at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for Junior and Senior students. The *Junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M., on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered and attend the regular clinics. The surgical group in the *Senior* year attends ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoons. Individuals may take any of the electives offered.

An *elective* course in operative surgery is given in the experimental laboratory during the Autumn and Spring Quarters. This course is scheduled from 8:30 to 11:30 A.M. on Tuesdays and Thursdays. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. During the Winter Quarter special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery as well as of anesthesia. Incidentally the student performs a number of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

An *elective* course in emergency and traumatic surgery is given each quarter. In groups of two, each week, Junior or Senior students are on call in the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis of acute abdominal emergencies. Lectures, twice each week, during the Winter Quarter, supplement this course.

An *elective* course in anesthesia is open to four properly qualified Senior students, each quarter. Students meet the anesthetist each morning in the operating room and observe and administer anesthetics under supervision.

*Ophthalmological Division.* During the Spring Quarter second-year students receive instruction in elementary ophthalmology. During the Junior obstetrical quarter the students are assigned to the ophthalmological clinic on Tuesday and Friday afternoons for five and one-half weeks, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned



to him. For those who manifest an unusual interest in this specialty, provision will be made for more advanced work. An elective course in diseases of the eye, including refraction and the use of diagnostic instruments, is given each quarter on Thursday morning along with a similar elective in otolaryngology.

*Orthopaedic Division.* In the Spring Quarter of the second year an introductory course in orthopaedics is given. During the surgical quarters the Junior and Senior students attend ward rounds at 8:30 A.M. on Monday. Clinics are held during the Autumn Quarter on Friday at 11:30 A.M. for Juniors and Seniors. Students in their Senior Surgical Quarter are assigned in rotation to the orthopaedic dispensary which is held each afternoon from Monday to Friday inclusive. Special work may be arranged for students who wish to do research or experimental work. At 813 Fifth Street, the orthopaedic department conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. Interested students are welcomed at any time. An elective course in orthopaedic pathology is offered for one hour per week during the Winter Quarter for Juniors and Seniors. During the surgical quarters the Junior and Senior students attend fracture ward rounds at 8:30 A.M. on Friday. An elective course in the treatment of fractures is offered during the Junior and Senior surgical quarters on Friday morning from 9:30 to 11:30. In this course the students get practical training in the application of plaster-of-Paris cast and in the follow-up treatment of fractures. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month and at Elizabeth City the last Tuesday of each month and in Tarboro the Monday before the last Tuesday of each month.

*Otolaryngological Division.* An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the Spring Quarter. Clinics on Fridays at 11:30 A.M. during the Spring Quarter are given to Junior and Senior students. Junior students during their obstetrical quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal teaching otolaryngological ward rounds, but Junior and Senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. An *elective* course on the anatomy, physiology, and diseases of the ear, nose and throat has been arranged for those desiring it. An *elective* course on diseases of the ear, nose and throat, including X-ray interpretation and the use of diagnostic instruments is given on Thursday morning of each quarter along with a similar elective in ophthalmology.

*Urological Division.* In the Spring Quarter, second-year students are given a course of lectures and practical demonstrations in urological physical diagnosis in the normal individual. Ward rounds on urological

patients are given every Saturday at 8:30 A.M., throughout the year, which Junior students in their surgical quarter, and the Senior surgical group are required to attend. During each quarter, small groups are selected from the Senior surgical group of students and assigned in rotation to the urological dispensary every afternoon. Here, under proper supervision, they study patients and given recommended treatment. During one and a third quarters of the year urological lectures are given on Fridays at 11:30 A.M. for the Junior and Senior classes. These lectures deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and the more technical methods of urological diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M., and from 1:00 to 5:00 P.M. throughout the year. X-ray conferences on all urological cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30, and are followed by Staff rounds. Three Senior students may select one of these cystoscopic clinics, X-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from five to six-thirty o'clock, and the members of the Staff review their respectively assigned journals. Interested students are welcomed.

*Neuro-surgical Division.* During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M., on every third Tuesday, neuro-surgical amphitheater clinics are held for Junior and Senior students. In these clinics, the general principles of neuro-surgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Wednesdays for the surgical group in the Senior year. Emphasis is placed in these smaller clinics upon the recognition of neuro-surgical problems, followed by observation of the operating and post-operative procedures. Weekly X-ray and pathological conferences are held which may be attended by interested individuals.

The *Tumor Clinic* of the Duke Hospital was organized in 1935 for the study and student teaching of malignant disease. It is staffed by a surgeon, radiologist, and pathologist, who attend all clinics, and consultants in the various specialties are on the consulting staff to be called when a patient with a malignant tumor in their field is registered in the clinic. Students in their fourth-year surgical quarter see all cases registered in the clinic and work them up and have available for teaching not only the clinical background of the Staff but also pathological sections of tumors under the study of the pathologists. From August, 1937, to August, 1938, there were 720 old patients and 455 new patients seen in the Tumor Clinic.

*Dentistry.* Second-year students, in the Spring Quarter, are instructed in the principles of dentistry.

### Roentgenology

R. J. REEVES, *Associate Professor of Roentgenology.*

W. S. WALLACE, *Instructor in Radiology.*

J. E. MORGAN, *Instructor in Roentgenology and Physiology.*

P. B. PARSONS, *Instructor in Roentgenology.*

F. K. HURT, *Assistant in Roentgenology.*  
 ROBERT WILLIAMS, *Assistant in Roentgenology.*

A course with especial reference to differential diagnosis and X-ray and radium therapy is given during the senior surgical quarter. Instruction in radium and X-ray therapy is given the Senior students each quarter in the tumor clinic.

An elective course in X-ray differential diagnosis is given to a limited number of students each quarter.

### Obstetrics and Gynecology

BAYARD CARTER, *Professor of Obstetrics and Gynecology.*  
 E. C. HAMBLEN, *Associate Professor of Obstetrics and Gynecology, and Endocrinologist.*  
 R. A. ROSS, *Associate Professor of Obstetrics and Gynecology.*  
 W. L. THOMAS, JR., *Assistant Professor of Obstetrics and Gynecology.*  
 W. Z. BRADFORD, *Assistant Professor, and Director, Charlotte Maternity Clinic.*  
 G. D. SEITZ, *Instructor in Obstetrics and Gynecology.*  
 E. M. RUCKER, *Assistant in Obstetrics and Gynecology.*  
 ELEANOR B. EASLEY, *Assistant in Obstetrics and Gynecology.*  
 W. KENNETH CUYLER, *Research Fellow in Obstetrics and Gynecology.*

*Second-year* students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the Spring Quarter. Clinics and demonstrations for Junior and Senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters, and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *Junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. daily, except Saturdays, Sundays, and holidays for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the *Junior* year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *Senior* student, during his specialties quarter, is required to spend two weeks on service with the Outside Obstetrics Training Group at Charlotte, North Carolina. This group is active in the antepartum care, in the delivery of the patients, and in the postpartum care of patients registered by the Maternity Clinic of that city. The group is under the direction of a trained obstetrician.

*Elective* courses in the diagnosis and treatment of obstetrics and gynecologic conditions are offered for Junior and Senior students.

### Pediatrics

W. C. DAVISON, *Professor of Pediatrics.*  
 ANGUS MCBRYDE, *Assistant Professor of Pediatrics.*  
 J. M. ARENA, *Assistant Professor of Pediatrics.*  
 J. S. HARRIS, *Associate in Pediatrics and Biochemistry.*  
 A. H. LONDON, *Instructor in Pediatrics.*  
 W. A. MACCOLL, *Assistant in Pediatrics.*  
 D. W. MARTIN, *Assistant in Pediatrics.*  
 LOUIS PLATT, *Assistant in Pediatrics.*  
 MILDRED M. SHERWOOD, *Supervisor in Pediatric Nursing.*

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the Spring Quarter. *Junior* and *Senior* students, during their medical quarters, have pediatric ward rounds on Saturdays from 8:30 to 9:30 A.M. The *Senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter, they are assigned daily as clinical clerks on the children's ward, nursery and pediatric dispensary, attend ward rounds, at 8:30 A.M. on Mondays, Wednesdays, and Fridays, are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 10:30 A.M., assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 9 A.M., and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends six infant feeding clinics during this quarter. On Thursdays at 11:30 A.M., the Junior and Senior students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses:* *Senior students* may attend the infant feeding clinic on Tuesdays at 10 A.M., do research work, or assist in pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

### Legal Medicine and Toxicology

J. B. BRADWAY, *Professor of Law.*

T. D. BRYSON, *Professor of Law.*

W. D. FORBUS, *Professor of Pathology.*

D. T. SMITH, *Professor of Bacteriology and Associate Professor of Medicine.*

H. M. TAYLOR, *Associate Professor of Biochemistry and Toxicology.*

This course embraces a discussion of the relation of physicians to legal criminal procedures; jurisdiction of the coroner and medical examiner; laws governing the dead human body; personal identity of the living and the dead; the legal autopsy; traumatic injuries and fractures; rape; abortion; asphyxial death; homicidal, suicidal, and industrial poisoning; alcoholism; the examination of blood, stains, fibers, and the detection of malingering. The course is open to students in the seventh to twelfth quarters and is given in alternate years. To be given in 1938-39. Discussions of medico-legal problems for the House Staff and Senior students, and joint conferences of the medical and law students also are held.

### Preventive Medicine and Public Health

H. W. BROWN, *Professor of Preventive Medicine and Public Health.*

H. G. BAITY, *Lecturer in Public Health.*

M. J. ROSENAU, *Lecturer in Preventive Medicine and Public Health.*

J. W. R. NORTON, *Lecturer in Preventive Medicine and Public Health.*

J. H. EPPERSON, *Instructor in Preventive Medicine and Public Health.*

H. B. GOTAAS, *Instructor in Public Health.*

W. P. RICHARDSON, *Instructor in Preventive Medicine and Public Health.*

*Public Health and Hygiene.* A lecture course is given designed to acquaint second-year students with general environmental sanitation including sewage disposal, water supplies, milk and food for rural and urban communities. Vital statistics, public health regulations, and various official



public health organizations are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to State, County and City health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises intended to provide Senior students with the preventive point of view in the practice of medicine. The etiology, modes of transmission, epidemiology, and the prevention of communicable diseases are discussed. The problems of infant and maternal hygiene, occupational diseases and the deficiency diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* is given in the Autumn Quarter of the second year by the Department of Bacteriology, and consists of the identification and virulence testing of diphtheria cultures, the isolation of stool, throat and blood organisms, the practical examination of water, Schick, Dick and tuberculin tests, and vaccination against typhoid and smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each may be condensed into three and one quarter calendar years. In the preclinical subjects three terms, and in the clinical subjects four terms, each of eleven weeks, are given during the year, and a certificate is granted after the satisfactory completion of twelve terms. These may be taken consecutively (certificate in three and one quarter years) if the student's previous work has been outstanding and if he has been given permission by the Curriculum Committee; or three terms may be taken each year (certificate in four years). Such a curriculum will affect in no way the course at any other medical school. If students who have received their first two years of training at other medical schools wish to spend their clinical years at the Duke University School of Medicine, they are eligible in October for the seventh quarter, which corresponds to the beginning of the usual Junior Class (see page 32).

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects and demonstrate, to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. During the sixth quarter every department of the School participates in a correlation course, which, combined with the teaching of physical diagnosis, serves to give the student just entering his clinical years a co-ordinated introduction to

medicine in all its aspects. From the seventh to twelfth quarters, pre-clinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

Eighteen per cent of the time in this curriculum is free for elective work or anything else which the student wishes to do. No credits are given for specific courses during this free time. The opportunity merely is provided for each student, on his own initiative, to obtain the additional training which he may feel to be necessary or desirable. It is hoped that many of the students will migrate to other medical schools in this country or abroad for one quarter, a practice which is encouraged. The students also may utilize their free time in elective courses in pre-clinical and clinical departments and may pursue independent work in any subject or may do research work. The elective courses have been organized for small groups and will be repeated, if necessary, in one or more quarters. Students who wish to study during the Summer Quarter, either here or elsewhere, to spend one or more quarters at other medical schools or to substitute a program different from that listed below, must obtain permission, in advance, from the Curriculum Committee.

#### CURRICULUM OF FOUR QUARTERS OF ELEVEN WEEKS EACH

(The hours for these courses will be posted on the bulletin board.)

##### FIRST YEAR

###### AUTUMN QUARTER (1st) :

September 28 to December 16, 1939.

Anatomy (including histology and neuro-anatomy) .....	385	Hours
Biochemistry .....	18	Hours
Free time .....	26	Hours

###### WINTER QUARTER (2d) :

January 3 to March 18, 1939.

Anatomy (including histology and neuro-anatomy) .....	165	Hours
Biochemistry .....	176	Hours
Free time .....	88	Hours

###### SPRING QUARTER (3d) :

March 27 to June 10, 1939.

Physiology and pharmacology, including nutrition .....	330	Hours
Free time .....	99	Hours

##### SECOND YEAR

###### AUTUMN QUARTER (4th) :

September 28 to December 16, 1939.

Pathology .....	198	Hours
Bacteriology and Parasitology .....	150	Hours
Introduction to Psychiatry .....	11	Hours
Free time .....	70	Hours

###### WINTER QUARTER (5th) :

January 3 to March 18, 1939.

Pathology .....	183	Hours
Clinical microscopy .....	110	Hours



Public health and hygiene .....	37 Hours
Free time .....	99 Hours

## SPRING QUARTER (6th) :

March 27 to June 10, 1939.

Physical diagnosis and introduction to clinical medicine .....	300 Hours
Free time .....	129 Hours

## JUNIOR YEAR

SUMMER QUARTER (7th) :\*  
June 19 to September 2, 1939.

Medicine (Junior) .....	385 Hours
Free time .....	44 Hours

AUTUMN QUARTER (8th) :\*  
September 28 to December 16, 1939.

Surgery (Junior) .....	418 Hours
Free time .....	11 Hours

WINTER QUARTER (9th) :\*  
January 3 to March 18, 1939.

Obstetrics and gynecology (Junior) .....	220 Hours
Ophthalmology and Otolaryngology .....	66 Hours
Free time .....	143 Hours

## SENIOR YEAR

SPRING QUARTER (10th) :\*  
March 27 to June 10, 1939.

Medicine (Senior) .....	390 Hours
Free time .....	39 Hours

SUMMER QUARTER (11th) :\*  
June 19 to September 2, 1939.

Surgery (Senior) including Urology and Orthopaedics .....	309 Hours
Obstetrics .....	120 Hours

AUTUMN QUARTER (12th) :\*  
September 28 to December 16, 1939.

Pediatrics .....	191 Hours
Medicine .....	82 Hours
Final clinical examinations .....	24 Hours
Preventive medicine .....	22 Hours
Free time .....	110 Hours

## SUMMARY

Total number of hours required instruction, (83%) .....	4,290
Total number of hours of free time, (17%) .....	858
Total number of hours in curriculum, (100%) .....	5,148

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.

## FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except: (1) students who have been given permission by the Curriculum Committee to spend a quarter at a European medical school or hospital will have their tuition of \$150 for that quarter remitted and (2) students who have been permitted by the Curriculum Committee to spend a quarter at another American medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter .....	\$150
Health Fee, per quarter .....	3.33
Athletic Fee, admitting students to all athletic contests held on the University grounds during the quarter .....	5
Room-rent, per quarter* (estimated) .....	50
Board, per quarter (estimated) .....	75
Laundry, per quarter (estimated) .....	10 to 20
Books, per quarter (estimated) .....	25 to 50
Commencement and Diploma Fees** .....	8
National Board of Medical Examiners Fees** 25 (Part I), 20 (Part II)	
Microscope, ophthalmoscope, otoscope and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	20 to 30
Estimated total expenses, per month .....	100 to 150

### ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the University administers other endowed loan funds for the benefit of students who are not financially able to meet their expenses. Medical students, after their third quarter, are eligible for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

\* Rooms may be reserved by medical students in the Graduate and Professional Student Dormitory. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made before August 1, by writing to Mr. W. E. Whitford, Duke University, Durham, N. C. This fee is deducted from the room charges for the Fall Quarter; it is not refundable unless the request is made on or before August 1.

\*\* Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding class work.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

4. Interest at the rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

### RESEARCH FELLOWSHIPS

The Anna H. Hanes Research Fellowship, in the Department of Medicine, held by Dr. Raymond Reiser.

The Lederle Laboratories Research Fellowship, in the Department of Biochemistry, held by Dr. Hans Neurath.

The James A. Greene Brucella Research Fellowship, in the Department of Medicine, held by Dr. Bowman Wise.

The Lederle Fellowship, in the Department of Surgery, held by Dr. Walter Marx.

The National Cancer Institute Fellowship, in the Department of Surgery, held by Dr. W. Ray Bryan.

The Ciba Pharmaceutical Products Research Fellowship in Endocrinology, held by W. Kenneth Cuyler.

# LIST OF SCHOOL OF MEDICINE STUDENTS

## FIRST-YEAR STUDENTS

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
William Edwin Baldwin, Jr..... <i>Duke University;</i> <i>S. S., Wake Forest College.</i>	Dunn, N. C.....	1013 Monmouth Ave., Durham, N. C.
Boyd Black..... <i>Waynesburg College.</i>	Mather, Pa.....	University Apts.-H3B, Durham, N. C.
Albert Henry Bremer, Jr..... <i>University of Virginia.</i>	Rochelle Park, N. J.....	813 Third St., Durham, N. C.
Clyde Owens Brindley..... <i>University of Texas.</i>	Temple, Texas.....	915 Green St., Durham, N. C.
Iverson Oakley Brownell..... <i>Washington State College.</i>	Pasco, Washington..	University Apts.-M1A, Durham, N. C.
Walter Ellis Bryant..... <i>College of Charleston;</i> <i>Newberry College.</i>	Darlington, S. C.....	1024 Gloria Ave., Durham, N. C.
Merwin Elliott Buchwald..... <i>Washington and Lee University.</i>	Brooklyn, N. Y..	1507 Duke University Road, Durham, N. C.
George William Burch..... <i>University of Florida.</i>	Lauderdale, Fla.....	807 Second St., Durham, N. C.
Clarence Cooper Butler..... <i>Vanderbilt University.</i>	Columbus, Ga.....	University Apts.-M2A, Durham, N. C.
John Robert Clark, Jr..... <i>Randolph-Macon College.</i>	Stuart, Va.....	University Apts.-M2A, Durham, N. C.
Joseph Henry Cutchin, Jr..... <i>Davidson College.</i>	Whitakers, N. C.....	1024 Gloria Ave., Durham, N. C.
Roy David Daniel..... <i>Florida Southern College;</i> <i>University of Florida.</i>	Fort Meyers, Fla.....	Duke University, House C.
William Arthur Dinsmore..... <i>Pennsylvania State College.</i>	Heilwood, Pa.....	1013 Monmouth Ave., Durham, N. C.
Herbert W. Eakins, Jr..... <i>Wittenberg College.</i>	Springfield, Ohio.	1601 Duke University Road, Durham, N. C.
Hartwell Price Edwards..... <i>Wofford College.</i>	Spartanburg, S. C.....	Duke Hospital
John Robert Egan..... <i>Harvard College.</i>	Washington, D. C.....	1104 Watts St., Durham, N. C.
John Mellichamp Fearing..... <i>College of Charleston;</i> <i>University of North Carolina.</i>	Charleston, S. C....	University Apts.-M1A, Durham, N. C.
Arthur Howard Flower, Jr..... <i>Heidelberg College.</i>	Dayton, Ohio.....	Duke University, House B.
Joseph Armistead Ford, Jr..... <i>Lynchburg College;</i> <i>Virginia Military Institute.</i>	Lynchburg, Va.....	University Apts.-L3A, Durham, N. C.
Elmer Thomas Gale..... <i>Duke University.</i>	Clinton, N. C.....	Duke University, Epworth.
Joe Frank Harris..... <i>Duke University.</i>	Raleigh, N. C.....	Duke University, House C.
John Roy Hege, Jr..... <i>Salem College;</i> <i>Duke University.</i>	Winston-Salem, N. C....	Duke University, House B.
Addison Weaver Hopper..... <i>Duke University.</i>	Maplewood, N. J.....	Duke University, House B.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Stephen Francis Horne..... <i>Duke University.</i>	Farmington, N. C.....	Duke University, House B.
Frank Randolph Johnston..... <i>Presbyterian College.</i>	Greer, S. C.....	University Apts.-M1A, Durham, N. C.
Herbert David Kerman..... <i>Duke University.</i>	West Palm Beach, Fla....	Duke University, House B.
Charles Edward Kernodle, Jr..... <i>Elon College.</i>	Elon College, N. C.....	Duke University, House A.
John Franklin Kincaid..... <i>Hampden-Sydney College.</i>	Leesburg, Va.....	Duke University, House A.
Chester Sedgewick Koop..... <i>Duke University.</i>	Islip, N. Y.....	Duke University, House DD.
Tarcila Laperal..... <i>University of Philippines; University of Santo Tomas; Rollins College.</i>	Manila, P. I.	
Frank R. Ledesma-Diaz..... <i>The Catholic University of America.</i>	San Juan, Puerto Rico....	Duke University, House D.
Julian Carr Lentz, Jr..... <i>Duke University.</i>	Durham, N. C.....	1006 Lamond Ave., Durham, N. C.
James William Littler..... <i>Duke University.</i>	Manlius, N. Y.....	Duke University, House Q.
William Campbell McLain, Jr..... <i>Duke University; University of South Carolina.</i>	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
I. William McLean, Jr..... <i>Davidson College.</i>	Kingston, Jamaica, B. W. I.	University Apts.-M1A, Durham, N. C.
Theo Howell Mees..... <i>Capital University; S. S., University of Maryland.</i>	Chevy Chase, D. C...	University Apts.-M1A, Durham, N. C.
Davis DeLeon Moise..... <i>University of Maryland; Duke University.</i>	Sumter, S. C.....	Duke University, House V.
Frank Theodore Moran..... <i>Rutgers University; Vanderbilt University.</i>	Jersey City, N. J....	University Apts.-M2A, Durham, N. C.
William Reynolds Nesbitt, Jr..... <i>Williams Junior College; Duke University.</i>	Durham, N. C.....	2403 Club Blvd., Durham, N. C.
Earl Andrew O'Neill..... <i>Springfield College.</i>	Elizabeth, N. J.....	University Apts.-M2A, Durham, N. C.
Charles Hamilton Reid, Jr..... <i>Salem College; University of North Carolina.</i>	Winston-Salem, N. C.....	Duke University, House B.
Frank Newell Reimer..... <i>Long Beach Junior College; Stanford University.</i>	Long Beach, Calif.....	Duke University, House B.
James Franklin Reinhardt..... <i>Davidson College.</i>	Lincolnton, N. C....	University Apts.-M1A, Durham, N. C.
Robert Alfred Greer Ricketson... <i>Vanderbilt University.</i>	Broxton, Ga.....	University Apts.-M1A, Durham, N. C.
Luther John Roberts, Jr..... <i>Georgia Military Academy; Washington and Lee University.</i>	Newnan, Ga....	1507 Duke University Road, Durham, N. C.
James Forbes Rogers..... <i>Duke University.</i>	Upper Montclair, N. J....	Duke University, House C.
Max Pritchard Rogers..... <i>High Point College.</i>	Burlington, N. C.....	Duke University, House D.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Brita Rosenqvist..... <i>University of Pittsburgh.</i>	Oakmont, Pa.....	308 Faculty Apts., Durham, N. C.
William Crenshaw Smith..... <i>Randolph-Macon College.</i>	Creeds, Va.....	University Apts.-M2A, Durham, N. C.
Richard Dean Snipes..... <i>University of North Carolina.</i>	Hamlet, N. C.....	1204 College Road, Durham, N. C.
George Peter Snyder, Jr..... <i>Duke University.</i>	Ridgefield Park, N. J.....	Duke University, House B.
Helen Starke..... <i>Duke University.</i>	Ridgewood, N. J.....	1023 Dacian Ave., Durham, N. C.
John Thomas Stone..... <i>The Citadel.</i>	Greenwood, S. C.....	1601 Duke University Road, Durham, N. C.
William Conrad Stone..... <i>Hampden-Sydney College.</i>	Roanoke, Va.....	Duke University, House A.
John Mather Street..... <i>Yale University.</i>	Manzanillo, Cuba.....	813 Third St., Durham, N. C.
Archie Reid Sutherland..... <i>Duke University; S. S., Emory and Henry College.</i>	Sparta, Ill.....	Duke University, House A.
George Foster Sutherland..... <i>Duke University; Duke University Graduate School.</i>	Grundy, Va.....	Duke University, House A.
Ralph Gordon Templeton..... <i>University of North Carolina.</i>	China Grove, N. C.....	906 Monmouth Ave., Durham, N. C.
Andrew Henry Thomas..... <i>Roanoke College.</i>	New Britain, Conn.....	Duke University, House B.
Harold Bushman Thurston..... <i>Duke University.</i>	Martinsburg, W. Va.....	Duke University, House B.
Henry Lewis Valk..... <i>University of North Carolina; University of Pennsylvania.</i>	Winston-Salem, N. C.....	1022 Gloria Ave., Durham, N. C.
Harvey Noble Vandergrift, Jr..... <i>University of Delaware.</i>	Elmhurst, Del.....	1000 Lamond Ave., Durham, N. C.
Harold Diederich von Glahn..... <i>Duke University.</i>	Brooklyn, N. Y.....	Duke University, House C.
Louis Charles Waller..... <i>Pennsylvania State College.</i>	Nanticoke, Pa.....	1505 Duke University Road, Durham, N. C.
Theodore Willard Weeks, Jr..... <i>University of Florida.</i>	Moore Haven, Fla.....	807 Second St., Durham, N. C.
Walter F. Whitt, Jr..... <i>Catawba College.</i>	Salisbury, N. C.....	Duke University, House C.
Charles Kenneth Wintrup..... <i>University of Pennsylvania; University of Delaware.</i>	Wilmington, Del.....	1000 Lamond Ave., Durham, N. C.
Harry Clyde Wortman, Jr..... <i>University of Tennessee.</i>	Belleville, N. J.....	Duke University, House P.
William Armand Wulfman..... <i>Marshall College.</i>	Huntington, W. Va.....	University Apts.-M1A, Durham, N. C.
William Vernon Young..... <i>Maryville College.</i>	Washington, N. J.....	Duke Hospital.

## SECOND-YEAR STUDENTS

Ellis Wentworth Adams..... <i>University of Michigan; Michigan State College.</i>	Ypsilanti, Mich.....	Duke University, House B.
Richard Haight Ames..... <i>Haverford College.</i>	Onancock, Va.....	Duke Hospital.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Kenward Oliver Babcock..... <i>San Mateo Junior College; Stanford University.</i>	Ontario, Calif.....	Duke University, House A.
Gareth Bonsack Barnes..... <i>Antioch College; Bridgewater College.</i>	Elgin, Ill.....	Duke Hospital.
Ralph Etheridge Baum..... <i>Duke University.</i>	Kitty Hawk, N. C.....	Duke University, House C.
Steven I. Bednarz..... <i>Rutgers University.</i>	Wallington, N. J.....	810 Second St., Durham, N. C.
Edward Perry Benbow, Jr..... <i>Guilford College; University of North Carolina.</i>	Greensboro, N. C.....	Duke University, House B.
Emil Charles Beyer..... <i>Duke University.</i>	White Plains, N. Y.....	Duke University, House C.
Edwin Wells Brown..... <i>Biltmore College; Duke University.</i>	Asheville, N. C.....	Duke University, House A.
James Walter Brown, Jr..... <i>Duke University.</i>	Gatesville, N. C.....	1515 W. Pettigrew St., Durham, N. C.
Kenneth Brien Brown..... <i>Franklin and Marshall College.</i>	Montclair, N. J.....	Duke University, House B.
William Keefer Brumbach..... <i>Duke University.</i>	Belleville, N. J.....	1017 Gloria Ave., Durham, N. C.
Woodrow William Burgess..... <i>Duke University.</i>	Royal Oak, Mich.....	1000 Lamond Ave., Durham, N. C.
Joseph Kalil David, Jr..... <i>University of Florida;</i>	Jacksonville, Fla.....	Duke University, House B.
J. Harold Donaldson, Jr..... <i>Marshall College.</i>	Huntington, West Va.....	818 Second St., Durham, N. C.
Frederick Duncan Elliott..... <i>Dickinson College.</i>	Coudersport, Pa.....	Duke Hospital.
John Ernest Emmett..... <i>Lafayette College.</i>	New York City....	Box 4314, Duke Station, Durham, N. C.
William Allen Exum..... <i>Davidson College; Duke University.</i>	Snow Hill, N. C.....	Duke University, House C.
Paul T. Forth..... <i>University of Michigan.</i>	Rochester, N. Y.....	Duke University, House B.
James S. Gilliam, Jr..... <i>University of North Carolina.</i>	Elon College, N. G.....	Duke University, House B.
Henry Boone Grant..... <i>University of North Carolina.</i>	Garysburg, N. C.....	Duke University, House A.
Briant Bowman Guerin..... <i>Duke University.</i>	Mendham, N. J.....	1515 W. Pettigrew St., Durham, N. C.
Hubert B. Haywood, Jr..... <i>University of North Carolina.</i>	Raleigh, N. C.....	1022 Gloria Ave., Durham, N. C.
Donald Vincent Hirst..... <i>Duke University.</i>	Durham, N. C....	1507 Duke University Road, Durham, N. C.
Charles William Hock..... <i>Bluefield College; Duke University.</i>	Bluefield, West Va.....	Duke University, House A.
James Weston Hodges..... <i>North Carolina State; East Carolina Teachers College.</i>	Greenville, N. C.....	1515 W. Pettigrew St., Durham, N. C.
William Nolen Horsley..... <i>Duke University.</i>	Belmont, N. C.....	Duke University, House A.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Richard Carroll Irving..... <i>Muskingum College.</i>	Conneaut, Ohio.....	116 Buchanan Blvd., Durham, N. C.
Stanley Karansky..... <i>Columbia University.</i>	Brooklyn, N. Y.....	Duke Hospital.
William Hummel Karmany..... <i>Gettysburg College;</i> <i>The Johns Hopkins University;</i> <i>School of Hygiene &amp; Public Health.</i>	Hummelstown, Pa.....	Duke Hospital.
William Baugher Kintzing..... <i>Dickinson College.</i>	Hanover, Pa.....	Duke University, House B.
Glenn Augustus Kiser..... <i>University of North Carolina.</i>	Bessemer City, N. C.....	Duke University, House A.
Frank Rambo Mann..... <i>University of Georgia.</i>	McRae, Ga.....	Duke University, House B.
Archibald Graham McIlwaine Martin, III..... <i>Randolph-Macon College;</i> <i>North Carolina State College, S. S.;</i> <i>University of North Carolina, S. S.</i>	Suffolk, Va.....	Duke Hospital.
Rudolph Powers McCulloch..... <i>Michigan State Normal.</i>	Ypsilanti, Mich.....	Duke University, House C.
Oscar Lee McFadyen, Jr..... <i>Duke University.</i>	Fayetteville, N. C.....	Duke University, House A.
Addison Lee Messer..... <i>University of Florida.</i>	Tallahassee, Fla.....	Duke Hospital.
Muriel Meyers..... <i>Hood College.</i>	Pittsburgh, Pa.....	Faculty Apts.-308, Durham, N. C.
Leon Howard Mims, Jr..... <i>The Citadel;</i> <i>University of South Carolina.</i>	Florence, S. C.....	1312 Birch St., Durham, N. C.
Edwin Hastings Mulford, II..... <i>Duke University;</i> <i>S. S., Cornell University.</i>	Little Falls, N. Y.....	Duke Hospital.
Jesse Phillip Muse..... <i>Duke University.</i>	Savannah, Ga.....	Duke University, House B.
Robert Glevé Neill..... <i>Bakersfield Junior College;</i> <i>University of California.</i>	Bakersfield, Calif.....	University Apts.-E3C, Durham, N. C.
Olin Charles Perryman, Jr..... <i>University of North Carolina.</i>	Winston-Salem, N. C.....	1004 Urban Ave., Durham, N. C.
Arnold Zachary Pfeffer..... <i>City College of New York;</i> <i>University of Maryland.</i>	New York City.....	Duke Hospital.
Kenneth Arthur Podger..... <i>Duke University.</i>	Kenmore, N. Y.....	Duke University, House CC.
Millard Pinson Quillian..... <i>University of Florida;</i> <i>Western State Teachers College.</i>	Bradenton, Fla.....	1515 Pettigrew St., Durham, N. C.
Mila Elisabeth Rindge..... <i>Connecticut College for Women.</i>	Madison, Conn.....	Faculty Apts.-214, Durham, N. C.
Eric Dutton Savage..... <i>Harvard University.</i>	New York City.....	1022 Gloria Ave., Durham, N. C.
John Green Scott, Jr..... <i>Duke University;</i> <i>S. S., University of Pittsburgh.</i>	Tamaqua, Pa.....	Duke University, House C.
William Harrison Sellers..... <i>Alabama Polytechnic Institute;</i> <i>Duke University.</i>	Anniston, Ala.....	1003 Monmouth Ave., Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Gardner Ford Smart.....	Troy, Ala.....	518 Warren St., Durham, N. C.
<i>Duke University.</i>		
Paul Delaine Snedegar.....	Elkins, West Va.....	Duke University, House B.
<i>Davis and Elkins College; S. S., University of Michigan.</i>		
David Rodney Stack, Jr.....	Charleston, S. C.....	1012 Burch Ave., Durham, N. C.
<i>Wofford College.</i>		
Charles Clarence Stauffer.....	Washington, D. C.....	Duke University, House C.
<i>Duke University.</i>		
Gordon Conover Stenhouse.....	Mt. Vernon, N. Y.....	Duke University, House C.
<i>New York University; University of North Carolina.</i>		
Richard McCulloch Taliaferro....	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
<i>Duke University.</i>		
William Gilmore Thompson.....	Portland, Me.....	814 E. Forest Hills Blvd., Durham, N. C.
<i>Duke University.</i>		
George Tudor Thornhill, Jr.....	Bluefield, W. Va.....	1013 Monmouth Ave., Durham, N. C.
<i>Duke University.</i>		
Raymond Perle Thornhill.....	Kellogg, Idaho.....	1000 Lamond Ave., Durham, N. C.
<i>University of Idaho.</i>		
Lloyd Flinton Timberlake.....	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
<i>Duke University; S. S., University of South Carolina.</i>		
James McKnight Timmons.....	Columbia, S. C.....	303 Swift Ave., Durham, N. C.
<i>Duke University; University of South Carolina.</i>		
Philip Cocke Trout.....	Roanoke, Va.....	1013 Monmouth Ave., Durham, N. C.
<i>University of Virginia.</i>		
Don James Weekes.....	Fresno, Calif.....	1025 Monmouth Ave., Durham, N. C.
<i>Fresno State Teachers College; Stanford University.</i>		
Walter LeRoy Widmark.....	Verona, N. J.....	1515 W. Pettigrew St., Durham, N. C.
<i>Duke University.</i>		
Thomas Wilfred Wills.....	San Diego, Calif.....	University Apts.-E3C, Durham, N. C.
<i>Harvard University; Stanford University.</i>		
Prentiss Willson, Jr.....	Washington, D. C.....	1006 Shepherd St., Durham, N. C.
<i>George Washington University; Pennsylvania State College.</i>		
George Ashby Winstead.....	Rocky Mount, N. C.....	Duke University, House A.
<i>Wake Forest College.</i>		

### JUNIOR-SENIOR STUDENTS

Felix M. Adams, Jr. (6/5/39)*...	Vinita, Okla.....	University Apts.-E3C, Durham, N. C.
<i>Oklahoma A. &amp; M. College.</i>		
Norman LaRue Anderson		
(12/16/39).....	Durham, N. C.....	Duke Hospital. Duke University.
Frederick Henry Andrus		
(12/16/39).....	Durham, N. C.....	University Apts.-C2C, Durham, N. C.
<i>Akron University; Duke University.</i>		
Waldo Otis Badgley (12/16/39)...	East Lansing, Mich.....	1005 N. Duke St., Durham, N. C.
<i>General Motors Institute of Technology; Michigan State College.</i>		

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Fred Nelson Baeder..... <i>Duke University.</i>	Nutley, N. J.....	Duke Hospital.
Oliver Jerome Bateman, Jr. (12/16/39)..... <i>Duke University.</i>	Byron, Ga.....	University Apts.-H3B, Durham, N. C.
Robert Martin Biddle (6/5/39)... <i>Northwestern University;</i> <i>Duke University.</i>	Parkersburg, West Va.....	1006 Dacian Ave., Durham, N. C.
William Hegley Bonser (12/16/39)..... <i>Yale University.</i>	Toledo, Ohio.....	108 E. Markham Ave., Durham, N. C.
Ivan Willard Brown, Jr. (12/16/39)..... <i>University of Rochester.</i>	Newfane, N. Y.....	210 Atlas St., Durham, N. C.
R. Brown (12/16/39)..... <i>Rollins College,</i>	Beatrice, Neb.....	905 Second St., Durham, N. C.
Walter Earl Brown (9/3/38)..... <i>University of North Carolina;</i> <i>medical student, ibid., 1934-1936.</i>	Wilson, N. C.....	Baker Sanatorium, Lumberton, N. C.
Charles Pardue Bunch (12/17/38)..... <i>Duke University.</i>	Statesville, N. C.....	818 Sixth St., Durham, N. C.
James Merryman Burk (12/17/38). <i>University of Indiana.</i>	Decatur, Ind.....	208 Buchanan Road, Durham, N. C.
Robert vanLiew Campbell (12/16/39)..... <i>University of Maryland.</i>	Hagerstown, Md.....	University Apts.-C3A, Durham, N. C.
Gordon Gayton Carmichael (3/18/39)..... <i>Rose Polytechnic;</i> <i>Indiana State University.</i>	Terre Haute, Ind.....	112 Buchanan Road, Durham, N. C.
David Cayer (12/17/38)..... <i>Duke University.</i>	Beachwood N. J.....	208 Atlas St., Durham, N. C.
Cecil Curtis Collins, Jr. (12/16/39)..... <i>Marion Institute;</i> <i>Duke University.</i>	Jacksonville, Fla.....	University Apts.-C3A, Durham, N. C.
Victor Conforti..... <i>Connecticut State College.</i>	Torrington, Conn.....	116 Buchanan Road, Durham, N. C.
John Hulon Cox (9/3/38)..... <i>University of North Carolina;</i> <i>medical student, ibid., 1934-1936.</i>	Winston-Salem, N. C.....	Marine Hospital, Chicago, Ill.
Frank Harold Crosby (6/5/39)... <i>University of Illinois.</i>	Lockport, N. Y.....	1017 Gloria Ave., Durham, N. C.
John Munroe Douglas (6/5/39)... <i>Davidson College.</i>	Davidson, N. C.....	812 Anderson St., Durham, N. C.
Jere Robert Downing (6/5/39)... <i>Duke University;</i> <i>University of New Hampshire.</i>	Kennebunk, Me.....	Hope Valley, Durham, N. C.
Ernest Brindley Dunlap, Jr. (6/5/39)..... <i>Duke University.</i>	Lawton, Okla.....	1006 Dacian Ave., Durham, N. C.
Archie Yelverton Eagles (6/5/39).. <i>Duke University.</i>	Wilson, N. C.....	University Apts.-M3A, Durham, N. C.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
William Fox Eckbert (6/5/39).... <i>University of Delaware.</i>	Hanover, Pa.....	University Apts.-M3A, Durham, N. C.
Harry Stough Etter (12/16/39).... <i>Duke University.</i>	Shippensburg, Pa.....	Erwin Apts.-307, Durham, N. C.
Arnold Lewis Field (12/17/38).... <i>Johns Hopkins University.</i>	Schnectady, N. Y....	University Apts.-E3C, Durham, N. C.
Richard Webster Finner (12/16/39)..... <i>University of Florida.</i>	Tallahassee, Fla.....	Duke University, House A.
William Henry Fisher, Jr..... <i>Duke University.</i>	Centreville, Md.....	Duke University, House Q.
Joseph B. Ford, Jr. (12/16/39).... <i>Duke University.</i>	Savannah, Ga.....	Duke Hospital.
William Henry Fulmer..... <i>Duke University.</i>	Savannah, Ga.....	208 Buchanan Road, Durham, N. C.
Julius Joyce Gibbons, Jr..... <i>Duke University.</i>	Wilson, N. C.....	Duke University, House A.
Stephen Arnold Ginn..... <i>Duke University.</i>	Royston, Ga.....	1200 Markham Ave., Durham, N. C.
David Watson Goddard (12/16/39)..... <i>Duke University.</i>	Portsmouth, Ohio.....	905 Second St., Durham, N. C.
Erastus Genair Goodman..... <i>University of North Carolina; medical student, ibid., 1936-1938.</i>	Leland, N. C.....	Duke University, House A.
Risley Frith Haines..... <i>Duke University.</i>	Bayamo, Cuba.....	Duke University, House V.
Willis Wilbur Harris..... <i>University of Florida.</i>	Bee Ridge, Fla.....	Duke University, House A.
Leroy Day Harshman (12/16/39).. <i>Waynesburg College.</i>	Frederickstown, Pa..	University Apts.-H3B, Durham, N. C.
William Carter Hawkins..... <i>Mars Hill College; Duke University.</i>	West Asheville, N. C.....	Duke University, House A.
William Victor Haymond (12/17/38)..... <i>University of Utah.</i>	Garfield, Utah.....	208 Atlas St., Durham, N. C.
Joseph Spurgeon Hiatt, Jr. (12/16/39)..... <i>Lenoir Rhyne College; Duke University.</i>	Lenoir, N. C.....	Duke University, House A.
Rolf Elmo Johnson..... <i>Duke University.</i>	Harrisburg, Pa.....	116 Buchanan Road, Durham, N. C.
James Woodruff Kelley..... <i>University of Delaware.</i>	Wilmington, Del.....	Duke University, House B.
Harold Barker Kernodle (6/5/39).. <i>Duke University.</i>	Elon College, N. C.....	Duke University, House A.
Robert Dumais Kornegay (6/5/39)..... <i>Davidson College.</i>	Rocky Mount, N. C.....	402 Watts St., Durham, N. C.
George Harold Kostant..... <i>Johns Hopkins University.</i>	Brooklyn, N. Y.....	Duke University, House J.
Harold Hunter Kuhn..... <i>Duke University.</i>	Charleston, W. Va...	University Apts.-C2C, Durham, N. C.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Charles Larsen (3/18/39)..... <i>University of Florida.</i>	Lakeland, Fla.....	University Apts.-C3B, Durham, N. C.
Charles Wells Latchem (12/17/38)..... <i>St. Ambrose College; Duke University.</i>	Washington, Iowa.....	812 Anderson St., Durham, N. C.
Jerome Lawrence (3/18/39)..... <i>New York University.</i>	New York, N. Y.....	Duke University, House B.
Robert Carl Lincicome (12/17/38)..... <i>Marietta College.</i>	Marietta, Ohio.....	912 Anderson St., Durham, N. C.
Stanley Joseph Lourdeaux..... <i>Santa Clara University; Menlo Junior College; Stanford University.</i>	San Francisco, Calif.....	903 Sixth St., Durham, N. C.
Paul Warren Lucas (6/5/39)..... <i>Duke University.</i>	Durham, N. C.....	100 Club Blvd., Durham, N. C.
Paul Franklin Maness (12/16/39)..... <i>Wofford College; Duke University.</i>	Yanceyville, N. C.....	Duke Hospital.
George Margolis..... <i>Johns Hopkins University.</i>	Montgomery, W. Va....	1022 W. Trinity Ave., Durham, N. C.
Lester Henry Margolis..... <i>Johns Hopkins University.</i>	Montgomery, W. Va....	1022 W. Trinity Ave., Durham, N. C.
Theodore Roosevelt Mattocks (12/17/38)..... <i>Duke University.</i>	Maysville, N. C.....	Duke Hospital.
William Jefferson McAnally, Jr. (12/17/38)..... <i>Duke University.</i>	High Point, N. C.....	3002 Club Blvd., Durham, N. C.
Harold Ellis Merkley (12/17/38)..... <i>Brigham Young University.</i>	Salt Lake City, Utah.....	809 Second St., Durham, N. C.
Francis Poynter Meyer, Jr. (3/18/39)..... <i>St. Petersburg Junior College; Duke University.</i>	St. Petersburg, Fla.....	818 Third St., Durham, N. C.
Robert Plato Miller..... <i>Duke University.</i>	Lincolnton, N. C....	University Apts.-E2B, Durham, N. C.
Wardell Hardee Mills..... <i>East Carolina Teachers College; University of North Carolina.</i>	Greenville, N. C.....	Duke University, House B.
Oscar Peyton Moffitt, Jr. (12/17/38)..... <i>Duke University.</i>	High Point, N. C.....	Duke Hospital.
Rufus Clegg Morrow, Jr. (12/17/38)..... <i>Davidson College.</i>	Zitacuaro, Michoacan, Mexico.	Duke Hospital.
Lyle Alfred Moser (6/9/39)..... <i>Muhlenberg College; Lebanon Valley College.</i>	Muir, Pa.....	Duke University, House B.
John Edward Moss..... <i>Duke University.</i>	Mobile, Ala.....	208 Buchanan Road, Durham, N. C.
Colin Alexander Munroe (6/5/39)..... <i>Davidson College.</i>	Charlotte, N. C.....	208 Buchanan Road, Durham, N. C.

\* The date in parentheses after a name indicates the time of completion of the medical course.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Henry Ten Eycke Munson (6/5/39).....	Detroit, Mich.....	1026 Trinity Ave., Durham, N. C.
Wayne University; Duke University.		
Brodie Crump Nalle, Jr. (6/5/39)	Charlotte, N. C.....	Duke University, House C.
University of North Carolina.		
Glenn Carraway Newman (6/5/39)	Clinton, N. C.....	University Apts.-M3A, Durham, N. C.
Duke University; Wake Forest College.		
Robert H. Nickau (6/5/39).....	Rahway, N. J.....	1004 Urban Ave., Durham, N. C.
North Carolina State College.		
Pat Ireland Nixon, Jr. (6/5/39) ..	San Antonio, Texas.....	Duke University, House A.
University of Texas.		
Robert Read Nixon.....	San Antonio, Texas.....	Duke University, House A.
University of Texas; St. Mary's University of San Antonio.		
Gilbert Matthewson Palen (6/5/39)	Woodbury, N. J.....	208 Buchanan St., Durham, N. C.
Hamilton College.		
Joseph Freeman Paquet (12/16/39).....	Portland, Oregon....	Duke University Road, Durham, N. C.
University of Oregon; University of Idaho; Duke University.		
Albert Archer Parrish (12/17/38)	Tabor City, N. C.....	Duke Hospital.
Duke University.		
Pierre Patillo Poole.....	Cross Anchor, S. C.....	1012 Burch Ave., Durham, N. C.
John B. Stetson University.		
Lawrence Augustus Pyle, Jr. (6/5/39).....	Washington, D. C.....	Duke University, House A.
University of Maryland; George Washington University.		
James Sidney Raper (9/3/38)....	Lexington, N. C... Rocky Mount Sanatorium, Rocky Mount, N. C.	
Duke University.		
Rufus Winston Roberts, Jr.....	Birmingham, Ala.....	Duke University, House C.
Duke University.		
Ralph Wayne Rundles.....	Hudson, Ind.....	2109 Chapel Hill Road, Durham, N. C.
De Pauw University; Cornell University Graduate School.		
Robert Thornton Rutherford, Jr. (12/16/39).....	Charlotte, N. C.....	Duke University, House A.
Duke University.		
William J. Rysanek, Jr. (3/18/39)	Baltimore, Md.....	University Apts.-J1A, Durham, N. C.
Johns Hopkins University.		
Clarence Joseph Sapp.....	Albany, Ga.....	Duke University, House A.
Duke University.		
Logan Everett Sawyer (3/18/39) ..	South Mills, N. C... University Apts.-M3A, Durham, N. C.	
Duke University.		
Paul Welstead Schanher, Jr. (12/17/38).....	Mt. Clemens, Mich... Duke University Road, Durham, N. C.	
Duke University.		
Thomas Gilbert Schnoor 12/17/38).....	Berkeley, Calif.....	901 Fifth St., Durham, N. C.
University of California; University of Nevada.		
Richard Allen Shields, Jr.....	Lewes, Del.....	Duke University, House Q.
Duke University.		

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Patti Marie Sills..... <i>Duke University.</i>	Nashville, N. C.....	116 Buchanan Blvd., Durham, N. C.
Paul Ervin Simpson (12/16/39).. <i>Muhlenberg College;</i> <i>Duke University.</i>	Ridgewood, N. J.....	University Apts.-C3A, Durham, N. C.
Robert Cathcart Smith (6/5/39).. <i>The Citadel.</i>	Mullins, S. C.....	208 Buchanan St., Durham, N. C.
George Arthur Sotirion (12/16/39)..... <i>Johns Hopkins University.</i>	Chicopee, Mass.....	210 Atlas St., Durham, N. C.
Ross Clarence Speir, Jr..... <i>Duke University.</i>	Birmingham, Ala.....	Duke University, House C.
Sidney Stark (6/5/39)..... <i>New York University.</i>	Brooklyn, N. Y.....	Duke University, House B.
Howard Paul Steiger (12/16/39).. <i>Bucknell University;</i> <i>Duke University.</i>	Williamsport, Pa.....	University Apts.-C3A, Durham, N. C.
Wray Donald Storey (3/18/39).. <i>Geneva College.</i>	Scottdale, Pa.....	University Inn, Durham, N. C.
Doris Lee Surles (6/5/39)..... <i>Duke University.</i>	Dunn, N. C.....	116 Buchanan Road, Durham, N. C.
Harvey Grant Taylor (12/16/39).. <i>San Jose State College;</i> <i>Stanford University.</i>	Los Gatos, Calif.....	Duke Hospital.
Joseph Dimmick Thetford (12/17/38)..... <i>Tulane University;</i> <i>University of Alabama.</i>	Montgomery, Ala.....	Duke Hospital.
John Redden Timmons (6/5/39).. <i>University of South Carolina;</i> <i>Duke University.</i>	Columbia, S. C.....	303 Swift Ave., Durham, N. C.
William Trachtenberg (3/18/39).. <i>University of North Carolina;</i> <i>Harvard College.</i>	Winston-Salem, N. C.....	Duke University, House C.
James Lyman Tullis (12/16/39).. <i>Rollins College.</i>	Cleveland, Ohio.....	1017 Demerius St., Durham, N. C.
James Arthur Tupper..... <i>University of Washington.</i>	Seattle, Wash.....	1022 W. Trinity Ave., Durham, N. C.
Larry Turner (6/5/39)..... <i>Duke University.</i>	Rocky Mount, N. C.....	208 Buchanan Road, Durham, N. C.
William Lucas Venning, Jr. (12/16/39)..... <i>Duke University;</i> <i>Harvard.</i>	Greensboro, N. C.....	Duke University, House B.
Joseph Allison Cannon Wadsworth, II (6/5/39)..... <i>Davidson College.</i>	Durham, N. C.....	410 Buchanan Road, Durham, N. C.
George Ritchie Wall..... <i>University of North Carolina;</i> <i>medical student, ibid., 1936-1938.</i>	Siler City, N. C.....	Duke University, House A.
Frederic Monroe Jacob Walp (6/5/39)..... <i>University of Pennsylvania;</i> <i>Muhlenberg College.</i>	Slatington, Pa.....	Duke University, House B.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Robert Eugene Walsh (12/16/39) ..	Elmira, N. Y.....	1022 W. Trinity Ave., Durham, N. C.
<i>Duke University.</i>		
George Archibald Watson, Jr. (6/5/39) .....	Cranford, N. J.....	University Drive, Durham, N. C.
<i>Lehigh University;</i>		
<i>New York University;</i>		
<i>Duke University.</i>		
Roderick Cameron Webb (6/5/39) ..	St. Petersburg, Fla.....	Duke University, St. Petersburg Junior College; House A.
<i>Duke University.</i>		
Kenneth Durham Weeks (6/5/39) ..	Rocky Mount, N. C.....	402 Watts St., Durham, N. C.
<i>Davidson College.</i>		
Jack Hamill Welch (6/4/40) .....	Columbus, Ohio.....	2117 Myrtle Drive, Durham, N. C.
<i>Ohio State University.</i>		
Irving Bernard Wexler (6/5/39) ..	New York, N. Y....	University Apts.-E3C, Durham, N. C.
<i>New York University.</i>		
Richard Bidgood Whitaker, Jr.....	Whiteville, N. C.....	Duke University, House A.
<i>Duke University.</i>		
Robert Macon Whitley, Jr.....	Stantonsburg, N. C.....	Duke University, House A.
<i>Louisburg College;</i>		
<i>Duke University.</i>		
Reaves Augustus Wilson (6/5/39) .....	Sarasota, Fla.....	Duke University, University of Florida, House C.
<i>University of Florida.</i>		
Robert Cary Wood.....	Lewisburg, West Va.....	Pinecrest Road, Durham, N. C.
<i>Duke University.</i>		
William Egleston Woodruff (12/16/39) .....	Winston-Salem, N. C..	1021 Markham Ave., Durham, N. C.
<i>Duke University.</i>		
James Clay Wren (3/18/39) .....	Siler City, N. C.....	Duke Hospital.
<i>Rutherford College;</i>		
<i>Duke University;</i>		
<i>medical student, University of</i>		
<i>North Carolina, 1935-1937.</i>		

## STUDENTS BY CLASSES

	<i>First-Year</i>	<i>Second-Year</i>	<i>Junior-Senior</i>	<i>Total</i>
1930 .....	52	0	18	70
1931 .....	63	46	36	145
1932 .....	50	60	55	165
1933 .....	60	43	90	193
1934 .....	63	56	91	210
1935 .....	66	57	96	219
1936 .....	70	61	112	243
1937 .....	71	63	111	245
1938 .....	70	67	120	257

INSTITUTIONS AT WHICH THE MEDICAL STUDENTS RECEIVED  
PART OR ALL OF THEIR PREPARATION

Akron University .....	1	Antioch College .....	1
Alabama Polytechnic Institute ...	1	Atlantic Christian College .....	1
Alabama, University of .....	2	Bluefield College .....	1

\* The date in parentheses after a name indicates the time of completion of the medical course.

Bridgewater College .....	1	Marietta College .....	2
Brigham Young University .....	1	Marion Institute .....	1
Bucknell University .....	1	Marshall College .....	1
California State Teachers College .....	1	Mars Hill College .....	2
California, University of .....	1	Maryland, University of .....	4
California, University of, at Los Angeles .....	1	Maryville College .....	1
Capital University .....	1	Michigan State College .....	3
Catawba College .....	1	Michigan, University of .....	3
Catholic University of America ...	1	Muhlenberg College .....	3
Citadel, The .....	3	Muskingum College .....	1
City College of New York .....	1	Nevada, University of .....	1
College of Charleston .....	2	Newberry College .....	1
Columbia Military Academy .....	1	New Hampshire, University of ...	2
Connecticut College for Women ..	1	New York University .....	4
Connecticut College of Pharmacy ..	1	North Carolina State College ....	3
Connecticut State College .....	1	North Carolina, University of ....	18
Cornell University .....	1	Northwestern University .....	1
Davidson College .....	10	Oklahoma A. & M. College .....	1
Delaware, University of .....	4	Oklahoma, University of .....	1
De Pauw University .....	1	Oregon, University of .....	1
Dickerson College .....	2	Pennsylvania State College .....	3
Duke University .....	91	Pennsylvania, University of .....	4
East Carolina Teachers College ...	2	Pittsburgh, University of .....	1
Elon College .....	1	Presbyterian Junior College .....	2
Emory and Henry College .....	1	Randolph-Macon College .....	3
Florida State College for Women ..	1	Roanoke College .....	1
Florida Southern College .....	1	Rochester, University of .....	1
Florida, University of .....	9	Rollins College .....	1
Franklin and Marshall College ...	1	Rutgers College .....	3
Fresno State Teachers College ...	1	Rutherford University .....	1
Geneva College .....	1	Saint Ambrose College .....	1
George Washington University ...	2	Saint Marys, University of, at San Antonio .....	2
Georgia Military Academy .....	1	Saint Petersburg Junior College ..	2
Georgia, University of .....	1	Salem College .....	1
Gettysburg College .....	2	San Diego State College .....	1
Guilford College .....	1	Santa Clara, University of .....	1
Hamilton College .....	1	South Carolina, University of ....	4
Hampden-Sydney College .....	2	Springfield College .....	1
Harvard University .....	7	Stanford University .....	6
Haverford University .....	1	Tennessee, University of .....	1
Heidelberg College .....	1	Texas, University of .....	3
High Point College .....	2	Tulane University .....	3
Hood College .....	1	Utah, University of .....	1
Idaho, University of .....	1	Virginia Military Institute .....	2
Illinois, University of .....	1	Virginia, University of .....	5
Indiana State Teachers College ...	1	Vanderbilt University .....	3
Indiana University .....	1	Wake Forest College .....	3
Iowa State, University of .....	1	Washington and Lee University ...	2
Iowa University .....	1	Washington State College .....	1
John B. Stetson University .....	1	Washington Square College .....	1
Johns Hopkins University .....	7	Washington, University of .....	1
Kemper Military School .....	1	Wayne University .....	1
Keystone Teachers College .....	1	Western Reserve University ....	1
Lafayette College .....	1	Western State Teachers College ..	1
Lebanon Valley College .....	1	Williams Junior College .....	1
Lehigh University .....	1	Wittenberg College .....	1
Lenoir Rhyne College .....	1	Wofford College .....	3
Louisburg College .....	1	Yale University .....	2
Lynchburg College .....	1		

## STATES IN WHICH THE MEDICAL STUDENTS WERE BORN

Alabama .....	8	Montana .....	2
Arizona .....	1	Nebraska .....	1
Arkansas .....	1	New Jersey .....	19
California .....	5	New York .....	20
Connecticut .....	5	North Carolina .....	52
Delaware .....	3	North Dakota .....	1
District of Columbia .....	4	Ohio .....	9
Florida .....	8	Oklahoma .....	4
Georgia .....	11	Oregon .....	2
Illinois .....	5	Pennsylvania .....	17
Indiana .....	2	South Carolina .....	20
Iowa .....	3	Texas .....	3
Louisiana .....	1	Utah .....	2
Maine .....	1	Virginia .....	10
Maryland .....	6	Washington .....	4
Massachusetts .....	4	West Virginia .....	10
Michigan .....	6		

## Foreign Countries

Canada .....	1	Panama .....	1
Cuba .....	2	Puerto Rico .....	1
Korea .....	1	Sweden .....	1

## GRADUATES WHO ARE OBTAINING THE REQUIRED TWO YEARS OF HOSPITAL OR LABORATORY TRAINING\*

- Francis William Alter, Jr., *Yale*; M.D., Duke (6/7/37); *Voluntary Ass't. in Infectious Diseases*, St. Bartholomew's Hospital and National Hospital, London, England, 7/15-12/15/37; *Int. in Ped.*, Presbyterian Hospital, New York City, 1/1/38—
- Robert Leonhardt Alter, *Dartmouth, Toledo, Ohio*; M.D., Duke (9/4/37); *Int. in Obs.*, Baltimore City Hospitals, 9/1/38—
- Gordon Joseph Axelson, *Northwestern, Virginia*; M.D., Duke (3/20/37); *Int.*, City of Chicago Municipal Tuberculosis Sanatorium, 5/1-5/31/37; *Int.*, rotating, Henry Ford Hospital, Detroit, 7/1/37—
- George James Baer, *Duke*; M.D., *ibid.* (9/4/37); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/37-8/1/38; *Int. in Orth.*, Johns Hopkins Hospital, 9/1/38—
- Elizabeth Mary Balas, *Pittsburgh*; M.D., Duke (6/6/38); *Int. in Path.*, Duke Hospital, 7/1/38—
- Sherwood W. Barefoot, *North Carolina*; M.D., Duke (3/19/38); *Int. and Ass't. Res. in Med.*, Duke Hospital, 3/20/38—
- George Jay Baylin, *Johns Hopkins*; M.D., Duke (3/20/37); *Ass't. in Anat.*, Duke Medical School, 4/1-6/30/37; *Int. in Surg.*, Sinai Hospital, Baltimore, 7/1/37-6/30/38; *Voluntary Ass't. in Path.*, Guy Hospital, London, England, 9/1/38-1/31/39—
- Courtlandt Dixon Berry, *Wesleyan*; M.D., Duke (6/6/38); *Int.*, rotating, Orange Memorial Hospital, Orange, N. J., 7/1/38—
- Bradford Bissell, *Cornell, North Carolina*; M.D., Duke (12/19/36); *Int. in Med. and Ass't. House Physician*, 1/1/37-12/31/37, and *Int. in Surg.*, The French Hospital, New York City, 4/1/38—
- John Riley Black, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Ped. and Obs.*, Duke Hospital, 7/1/38—

\* The institutions at which each student received his premedical preparation are shown in italics. The date in parentheses after Duke indicates the time of the completion of the medical course.



- George McClintock Bogardus, *Washington*; M.D., Duke (6/6/38); *Int. in Surg.*, Duke Hospital, 6/7-6/30/38; *Int.*, Mount Morris Tbc. Hospital, Mount Morris, N. Y., 10/1/38—
- John Walter Brandt, *Pennsylvania State, George Washington*; M.D., Duke (6/6/38); *Int.*, *rotat.*, Pittsburgh Medical Center, 7/1/38—
- Julius Caesar Burge, Jr., *Citadel*; M.D., Duke (6/7/37); *Int.*, *rotat.*, Watts Hospital, Durham, N. C., 7/1/37-6/30/38; *Int.*, N. C. State Sanatorium, Sanatorium, N. C., 8/1/38—
- Margaret Virginia Burns, *Duke*; M.D., *ibid.* (9/4/37); *Int.*, N. Y. State Hospital, Ray Brook, N. Y., 10/16/37-12/31/37; *Int. in Ped.*, Duke Hospital, 1/1/38-6/30/38; *Int.*, Kent County General Hospital, Dover, Delaware, 7/1/38—
- C. Willard Camalier, Jr., *George Washington*; M.D., Duke (6/6/38); *Int.*, *rotat.*, Emergency Hospital and Central Dispensary, Washington, D. C., 6/15/38—
- Richard Rutledge Carter, *Oregon*; M.D., Duke (6/6/38); *Int. in Med.*, Duke Hospital, 7/1/38—
- James Madison Covington, Jr., *Davidson*; M.D., Duke (6/6/38); *Int.*, *rotat.*, Central Dispensary & Emergency Hospital, Washington, D. C., 7/1/38—
- Almon Rufus Cross, *New Hampshire*; M.D., Duke (6/6/38); *Int. in Obs. and Ped.*, Duke Hospital, 7/1/38—
- James Hawley Currens, *Western Illinois State Teachers, Michigan*; M.D., Duke (6/6/38); *Int. in Med.*, Boston City Hospital, 7/1/38—
- Harry Leonard Dein, *Duke*; M.D., *ibid.* (3/20/37); *Int. in Med.*, Duke Hospital, 3/21-6/30/37; *Int.*, *rotat.*, Atlantic City Hospital, 7/1/37-6/30/38; *Int. in Surg.*, Duke Hospital, 7/1/38—
- William Franklin Drummond, *Alabama*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int.*, North Louisiana Sanatorium, Shreveport, 4/1-6/30/37; *Int.*, *Pub. Health Service*, U. S. Marine Hospital, New Orleans, 7/1/37—
- Charles Ross Duncan, *Wake Forest*; med. stud., *ibid.*, 1931-33; M.D., Duke (9/4/37); *Int.*, *rotat.*, Rex Hospital, Raleigh, N. C., 9/1/37-6/30/38; *Res.*, *general*, Spartanburg General Hospital, Spartanburg, S. C., 7/1/38—
- David Hudson Fogel, *New York, Virginia*; M.D., Duke (6/6/38); *Int. in Med.*, Church Home and Infirmary, Baltimore, Md., 7/1/38—
- Robert Carson Fugate, *Washington and Lee, Emory and Henry, Duke*; M.D., Duke (3/20/37); *Int. in Ped.*, Duke Hospital, 4/1-4/30/37; *Int.*, Manhattan Eye, Ear & Throat Hospital, New York City, 6/1-6/27/37; *Int.*, *rotat.*, Harper Hospital, Detroit, 6/28/37-6/28/38; *Int. in Otolaryn.*, Duke Hospital, 7/1/38—
- Atticus James Gill, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Path.*, Duke Hospital, 7/1/38—
- Dan Cummins Gill, *Virginia Military Institute, Oklahoma*; M.D., Duke (6/6/38); *Int. in Med.*, University of Minnesota Hospitals, Minneapolis, Minn., 7/1/38—
- William Henry Glass, *Furman*; M.D., Duke (6/7/37); *Int.*, *rotat.*, Sydenham Hospital, New York City, 7/1/37—
- Thomas Alphonse Gonder, Jr., *Maryland, West Virginia*; M.D., Duke (6/7/37); *Int. in Med.*, Johns Hopkins Hospital, 9/1/37-8/31/38; *Int.*, *rotat.*, West Baltimore Hospital, 11/21/38—
- Aubrey Crafton Gose, *Lincoln Memorial, Emory and Henry*; M.D., Duke (6/7/37); *Int. in Path.*, Washington University Medical School, 7/1/37-5/30/38; *Instructor in Path.*, Washington University School of Medicine and *Res. in Path.*, St. Louis County Hospital, Clayton, Mo., 7/1/38—
- Cyrus Leighton Gray, Jr., *High Point*; M.D., Duke (6/7/37); *Int. in Surg.*, Duke Hospital, 7/1/37-2/28/38—
- William Reed Haas, *Minnesota, Carleton, Wisconsin*; M.D., Duke (3/19/38); *Int. in Med.*, Duke Hospital, 6/20-10/27/38; *Int.*, N. Y. State Hospital, Ray Brook, N. Y., 11/1-12/20/38; *Int. in Med.*, New Haven Hospital, 1/1/39—

\* See footnote, p. 63.



- Charles Edgar Haines, Jr., *Rutgers, Duke*; M.D., latter (6/7/37); *Int. in Med.*, Baltimore City Hospitals, 7/1/37-6/30/38; *Int. in Surg.*, Duke Hospital, 7/1/38—
- Collins Fremont Hall, *Gettysburg*; M.D., Duke (6/6/38); *Int.*, *rotat.*, Harrisburg General Hospital, Harrisburg, Pa., 7/1/38—
- Harold Ira Harvey, *Harvard*; M.D., Duke (6/7/37); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/37—
- Walter Darlington Hastings, Jr., *Columbia Military Academy, Duke*; M.D., latter (6/6/38); *Int. in Orth.*, Duke Hospital, 7/1/38—
- Alfred Faxon Henderson, *Joliet Junior, Duke*; M.D., latter (6/7/37); *Int.*, *rotat.*, Emergency Hospital & Central Dispensary, Washington, D. C., 7/1/37-6/30/38; *Int. in Surg.*, Duke Hospital, 7/1/38—
- Marvin S. Herrington, *Duke*; M.D., *ibid.* (3/20/37); *Int.*, N. C. State Sanatorium, 3/22-6/15/37; *Int.*, *rotat.*, *Res. in Med.*, *Ass't. Res. in Surg.*, Norfolk General Hospital, Norfolk, Va., 7/1/37—
- Harry Stuart Hickman, *Duke*; M.D., *ibid.* (6/6/38); *Int.*, *rotat.*, Norfolk General Hospital, Norfolk, Va., 7/1/38—
- William Fredwin Hollister, *Santa Monica Junior, California*; M.D., Duke (6/6/38); *Int. in Surg.*, Duke Hospital, 7/1/38—
- Harold MacLachan Horack, *Duke, Iowa*; M.D., former (3/20/37); *House Officer in Med.*, Peter Bent Brigham Hospital, Boston, 6/15/37—
- Newton Hornick, *Catawba*; M.D., Duke (6/7/37); *Int.*, *rotat.*, *Ambulance Service, and Ass't. Res. in Roent.*, Long Island College Hospital, 7/1/37—
- Joe McKinney Ivie, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Med.*, Baltimore City Hospitals, 7/1/38—
- Arthur Harvey Joistad, Jr., *Minnesota, North Dakota*; med. stud., latter, 1933-35; M.D., Duke (12/18/37); *Int. in Ped.*, Strong Memorial Hospital, Rochester, N. Y., 1/1/38-6/30/38; *Int. in Med.*, Duke Hospital, 7/1/38—
- William Henry Kaufman, *Johns Hopkins*; M.D., Duke (9/4/37); *Int.*, N. C. State Sanatorium, 9/29/37-10/30/37; *Int. and Ass't. Res. in Med.*, Duke Hospital, 11/1/37—
- Albert Francis Lee, *Washington, College of Puget Sound*; M.D., Duke (12/18/37); *Int.*, U. S. Public Health Service, U. S. Marine Hospital, Baltimore, Md., 7/1/37-6/30/38; *Int. in Obs.*, Duke Hospital, 7/1/38—
- Lyndon Edmund Lee, Jr., *Virginia, Columbia*; M.D., Duke (12/18/37); *Int. in Tbc. and Heart*, Blue Ridge Sanatorium and University Hospital, Charlottesville, Va., 1/1-6/30/38; *Ass't. National Research Council Narcotics Division*, Pondville Hospital, Wrentham, Mass., 7/1/38—
- Joseph Michael Lesko, *Connecticut Coll. of Pharmacy, Michigan*; M.D., Duke (12/18/37); *Jr. House Officer in Neuro-psych.*, McLean Hospital, 1/10-4/2/38, and *Int. in Med.*, Boston Psychopathic Hospital, Boston, Mass., 4/1/38—
- Thomas Norwood Lide, *Clemson*; M.D., Duke (3/19/38); *Int.*, *rotat.*, Germantown Hospital & Dispensary, 3/20/38—
- William Alexander MacColl, *Amherst College, Amherst Graduate School, Massachusetts State Graduate School*; M.D., Duke (3/19/38); *Int. in Ped.*, Strong Memorial Hospital, 3/20/38-6/30/38; *Int. in Ped.*, Duke Hospital, 7/1/38—
- Anthony Ralph Marsicano, *Long Island*; M.D., Duke (3/20/37); *Int. in Surg.*, McGuire Clinic, Richmond, Va., 3/21-6/20/37; *Int.*, *rotat.*, Bushwick Hospital, Brooklyn, N. Y., 7/1/37—
- David William Martin, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med.*, Baltimore City Hospitals, 7/1/37-6/30/38; *Int. in Ped.*, Duke Hospital, 7/1/38—
- James Risto Martin, *Vanderbilt, Alabama*; med. stud., latter, 1933-35; M.D., Duke (3/20/37); *Int. in Surg.*, Baltimore City Hospitals, 3/21-6/30/37; *Int.*, *rotat.*, University Hospitals, St. Louis University School of Medicine, 7/1/37-6/30/38; *Int. in Surg.*, Baltimore City Hospitals, 7/1/38—

\* See footnote, p. 63.

- Hugh Alexander McAllister, *Davidson, North Carolina*; med. stud., latter, 1933-35; M.D., Duke (6/7/37); *Int., rotat., Emergency Hospital & Central Dispensary, Washington, D. C., 7/1/37-6/30/38; 1st. Lieut., Reserve Corp, Walter Reed Hospital, Washington, D. C., 7/1/38—*
- Joseph Pickett McCracken, *Duke*; M.D., *ibid.* (9/4/37); *Int. in Path. and Med., Baltimore City Hospitals, 10/11/37—*
- Frank Richardson Moore, *Duke*; M.D., *ibid.* (6/7/37); *Int., Woman's Hospital, Baltimore, 7/1/37-6/30/38; Ass't. Res. in Med., Hospital for Women of Maryland, Baltimore, 7/1/38—*
- Henry George Morton, *Duke*; M.D., *ibid.* (12/18/37); *Int. and Ass't. Res. in Ped., Duke Hospital, 1/1-8/31/38; Int. in Med., N. Y. Postgraduate Hospital, 10/1/38—*
- Philip Naumoff, *Pittsburgh*; M.D., Duke (6/7/37); *Int., rotat., University of Pittsburgh Hospital, 7/1/37-6/30/38; Res., general, Bradford Hospital, Bradford, Pa., 8/1/38—*
- Walter Relfe Newbern, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med., Vanderbilt University Hospital, 7/1/37-6/30/38; Int. in Surg., Duke Hospital, 7/1/38—*
- Richard Elwood Nitschke, *Duke*; M.D., *ibid.* (6/7/37); *Int. in Med., United Hospital, Port Chester, N. Y., 7/1/37-6/30/38; Int. in Surg., Roosevelt Hospital, New York City.*
- Carlton Lee Ould, *Roanoke, Duke*; M.D., latter (3/20/37); *Int. in Med., Duke Hospital, 3/21/37-6/30/38; Int. in Path., Rhode Island Hospital, Providence, R. I., 7/1/38—*
- Archibald Hanes Pate, *Duke*; M.D., *ibid.* (6/7/37); *Int. and Ass't. Res. in Surg., Henry Ford Hospital, Detroit, 7/1/37—*
- James McGuire Peery, *William and Mary*; M.D., Duke (6/6/38); *Int., rotat., Germantown Hospital and Dispensary, Germantown, Pa., 7/1/38—*
- R. Mel Perry, *Washington*; M.D., Duke (6/6/38); *Int. in Ped., Vanderbilt University Hospital, 7/1/38—*
- William Phillips, *Ohio State*; M.D., Duke (9/5/36); *Int., rotat., Harper Hospital, 9/20/36-9/19/37; Jr. Res. in Path., Detroit Receiving Hospital, Detroit, 10/18/37-6/30/38; Sr. Int. in Med., Harper Hospital, Detroit, 6/1/38—*
- Raymond Woodrow Postlethwait, *West Virginia*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int., N. C. State Sanatorium, 4/1-6/30/37; Int. and Ass't. Res. in Med., Duke Hospital, 7/1/37—*
- William Flynn Powell, *Princeton*; M.D., Duke (12/18/37); *Int., Baker Sanatorium, Lumberton, N. C., 2/24-6/30/38; Int., U. S. Public Health Service, Marine Hospital, New Orleans, La., 7/1/38—*
- Ira Stanley Ross, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Ped., Duke Hospital, 7/1/39—*
- Weldon Troh Ross, *Oregon*; M.D., Duke (6/6/38); *Int. in Med., University of Chicago Clinics, 7/1/38—*
- Socrates Rumpanos, *Alabama*; med. stud., *ibid.*, 1933-35; M.D., Duke (3/20/37); *Int. in Med., Baltimore City Hospitals, 3/25-6/25/37; Int., rotat., University of Maryland Hospital, Baltimore, 7/1/37-6/30/38; Int., rotat., City Hospital, Mobile, Ala., 7/1/38—*
- James Wilbur Sachs, *Duke*; M.D., *ibid.* (6/6/38); *Int., U. S. Public Health Service, U. S. Marine Hospital, Seattle, Wash., 7/1/38—*
- William Osce Self, *Furman*; M.D., Duke (6/7/37); *Int., Johns Hopkins Hospital, 9/1/37-8/31/38, and Ass't. Res. in Surg., Palmerton Hospital, Palmer-ton Pa., 9/1/38—*
- James Edward Sheehy, *Notre Dame*; M.D., Duke (6/7/37); *Int., rotat., St. Vincents Hospital, New York City, 7/1/37—*
- George Addison Silver, III, *Guilford College*; M.D., Duke (9/4/37); *Int. in Ped., Duke Hospital, 9/1/37-6/30/38; Int., rotat., St. Francis Hospital, Trenton, N. J., 7/1/38—*

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\* See footnote, p. 63.

- Murdo Eugene Street, Jr., *Duke, North Carolina*; med. stud., latter, 1933-35; M.D., Duke (3/20/37); *Int.*, Moore County Hospital, Inc., Pinehurst, N. C., 3/25-6/20/37; *Int.*, U. S. Public Health Service, U. S. Marine Hospital, Norfolk, Va., 7/1/37-4/20/38; *Int.*, U. S. Public Health Service, U. S. Marine Hospital, Ellis Island, N. Y., 4/26/38—
- George Merritt Stroud, *Duke*; M.D., *ibid.* (3/19/38); *Int. in Med.*, Duke Hospital, 3/20/38—
- Charles Woodrow Styron, *North Carolina State*; M.D., Duke (6/6/38); *Int. in Pcd.*, Duke Hospital, 7/1/38—
- Edwin Hale Thornhill, *Duke*; M.D., *ibid.* (3/19/38); *Int. in Surg.*, Duke Hospital, 4/1-6/30/38; *Int.*, *rotat.*, Church Home and Infirmary, Baltimore, 7/1/38—
- Eulyss Robert Troxler, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Med.*, Baltimore City Hospitals, 7/1/38—
- Condit Brewer Van Arsdall, Jr., *Kentucky Wesleyan, Kentucky*; M.D., Duke (6/7/37); *Int.*, General Hospital, Saranac Lake, N. Y., 6/21/37-6/30/38; *Int. in Med.*, Duke Hospital, 11/1/38—
- Joe Milton Vanhoy, *Duke*; M.D., *ibid.* (6/6/38); *Int.*, Orthopaedic Hospital, Gastonia, N. C., 7/1-8/31/38; *Int. in Surg.*, Bellevue Hospital, 9/21/38—
- Philip Holt Varner, *West Virginia*; med. stud., *ibid.*, 1934-36; M.D., Duke (6/6/38); *Int.*, *rotat.*, Sibley Memorial Hospital, Washington, D. C., 7/1/38—
- Norman Clemm Veale, *San Diego State, California*; M.D., Duke (12/18/37); *Int.*, Baker Sanatorium, Lumberton, N. C., 1/1-2/24/38; *Int.*, U. S. Med. Res., Station Hospital, Fort McClellan, Ala., 2/25-6/25/38; *Int.*, U. S. Public Health Service, Marine Hospital, New Orleans, La., 7/1/38—
- Nelson Mortimer Webster, *Nevada*; M.D., Duke (12/18/37); *Int. in Obs.*, Baltimore City Hospitals, 1/1-6/30/38; *Int. in Obs.*, Duke Hospital, 7/1/38—
- Warner Lee Wells, *Duke*; M.D., *ibid.* (6/6/38); *Int. in Surg.*, Duke Hospital, 7/1/38—
- James Griffith Whilden, *Duke*; M.D., *ibid.* (6/7/37); *Int.*, *rotat.*, Reading City Hospital, Reading, Pa., 7/1/37-6/30/38; *Int. in Surg.*, Duke Hospital, 7/1/38—
- Charles Stanly Whitaker, *Duke*; M.D., *ibid.* (6/6/38); *Int.*, *rotat.*, Methodist Episcopal Hospital, Brooklyn, N. Y., 7/1/38—
- James Stevenson Wilson, *Davidson*; M.D., Duke (3/20/37); *Int.*, *rotat.*, Richmond Memorial Hospital, 3/20-6/30/37; *Int. in Surg.*, Henry Ford Hospital, Detroit, 7/1/37-6/30/38; *Ass't. Res. in Surg.*, Watts Hospital, Durham, N. C., 7/1/38—
- Wesley Wellington Wilson, *Florida, Duke*; M.D., latter (3/20/37); *Int. in Med.*, Strong Memorial Hospital, Rochester, N. Y., 4/1-6/30/37; *Int. in Med. and Ass't. Res. in Derm. & Syphilol.*, University of Chicago Clinics, 7/1/37—
- Frank Mahlon Woolsey, Jr., *Duke*; M.D., *ibid.* (6/6/38); *Int. in Path.*, Washington University, St. Louis, Mo., 7/1/38—
- Dorothy Bryan Wyvell, *Duke, George Washington*; M.D., former (6/6/38); *Int.*, Children's Hospital, Montreal, Canada, 7/1/38—

#### GRADUATES WHO HAVE COMPLETED SATISFACTORILY TWO OR MORE YEARS OF HOSPITAL OR LABORATORY TRAINING\*

- Gerald Lyon Ackerman, *Washington and Jefferson, West Virginia*; med. stud., latter, 1929-31; M.D., Duke (3/22/33); *Int.*, *Ass't. Res. and Res. in Surg.*, Church Home and Infirmary, Baltimore, Md., 7/1/33-6/30/37; *Present address (in practice)*, Saginaw, Mich.
- Carlton Noble Adams, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, *Ass't. Res. and Res. in Surg.*, Church Home and Infirmary, Baltimore, Md., 7/1/32-6/30/36; *present address (in practice)*, Winston-Salem, N. C.

\* See footnote, p. 63.

- Raymond DeLacey Adams, *Oregon*; M.D., Duke (12/19/36); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/37-6/30/38; *Res. in Neurol.*, Massachusetts General Hospital, Boston, Mass., 8/1/38—
- Trogler Francis Adkins, *North Carolina*; M.D., Duke (12/19/36); *Int. in Surg. and in Obs. and Gyn.*, Duke Hospital, 1/1/37—
- Lacy Allen Andrews, Jr., *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int.*, Baltimore City Hospitals, 7/1/32-6/30/33, and Watts Hospital, Durham, N. C., 7/1/33-6/30/34; *present address (in practice)*, Durham, N. C.
- Jay Morris Arena, *West Virginia*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Ped.*, Strong Memorial Hospital, Rochester N. Y., 3/22-6/30/32, and Johns Hopkins Hospital, 7/1/33-6/30/35; *Inst., Assoc. and Ass't. Prof. of Ped.*, Duke University School of Medicine, 7/1/35—
- Maynard Backer Badanes, *Johns Hopkins*; M.D., Duke (9/5/36); *Int. in Ped.*, Duke Hospital, 9/6-12/31/36; *Int., rotat.*, Sydenham Hospital, New York City, 1/1/37-12/31/38; *present address (in practice)*, Flushing, Long Island, N. Y.
- John Samuel Baker, *Southern California*; M.D., Duke (9/1/34); *Int. in Med.*, Duke Hospital, 9/1/34-8/31/35; *Res. in Med.*, San Diego County Hospital, San Diego, Calif., 1/1-6/30/36; *Res. of Clinics*, Riverside Co. Hospital, Riverside, Calif., 9/1/36-12/31/37; *Res., Outside Obstetrics Service*, Los Angeles Co. Hospital, Los Angeles, Calif., 1/6/38-8/31/38; *present address (in practice)*, 826 S. Hobart St., Los Angeles, Calif.
- Lenox Dial Baker, *Tennessee, North Carolina*; M.D., Duke (12/19/33); *Int. in Surg. and Ass't. Res. and Res. in Ortho.*, Johns Hopkins Hospital, 1/1/34-8/31/37; *Inst. in Ortho.*, Duke University School of Medicine, 9/1/37—
- John Valentine Blady, *Wisconsin*; med. stud., *ibid.*, 1926-27, 1928-29; M.D., Duke (3/19/32); *Int. in Surg.*, Duke Hospital, 7/1/32-6/30/33; *Ass't. Res., Res. and Inst. in Roent.*, Temple University Hospital, Philadelphia, 7/1/33-12/31/35; *Int. in Roent., Clin. Fellow and Res. Surgeon*, Memorial Hospital, New York City, 1/1/36—
- Berget Henri Blocksom, Jr., *Indiana, Michigan*; M.D., Duke (9/2/33); *Int. in Surg.*, Duke Hospital, 9/3/33-6/30/34; *Ass't. Res. and Res. in Urol.*, Univ. of Chicago Clinics, 7/1/34-6/30/37; *present address (in practice)*, Rockford, Ill.
- Julius Boiarsky, *West Virginia, Ohio State*; med. stud., former, 1931-33; M.D., Duke (6/8/35); *Int., rotat.*, Deaconess Hospital, Cincinnati, O., 7/1/35-6/30/36; *Ass't. Res. in Ortho. Surg.*, Charleston General Hospital, Charleston, West Va., 7/1/36-6/30/37; *present address (in practice)*, Boiarsky Hospital, Charleston, West Va.
- Ned Ornell Bowman, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int.*, Middlesex General Hospital, Middlesex, N. J., 7/1/32-12/1/33; *Ass't. Res. and Res.*, Eastern Dispensary and Casualty Hospital, Washington, D. C., 1/1-6/30/34; *Inst. in Physiology and Ass't. School Physician*, Rutgers Univ., New Brunswick, N. J., 7/1/34-6/30/36; *present address (in practice)*, New Brunswick, N. J.
- Oren Douglas Boyce, *North Carolina*; M.D., Duke (9/2/33); *Int.*, Jefferson Hospital, Roanoke, Va., 9/3/33-6/30/34; *and in Obs. and Gyn.*, Vanderbilt Univ. Hospital, 7/1/34-6/30/35; *present address (in practice)*, Rural Retreat, Va.
- Edgar Marx Braun, *Brown*; M.D., Duke (6/13/36); *Int. in Ped.*, Brooklyn Jewish Hospital, 7/1/36-6/30/37; *Int., rotat.*, St. Elizabeth's Hospital, Elizabeth, N. J., 7/1-8/31/37; *Int., rotat.*, Muhlenberg Hospital, Plainfield, N. J., 11/20/37-6/30/38; *Res. in Ped.*, Beth-El Hospital, Brooklyn, N. Y., 7/1/38—

\* See footnote, p. 63.



- Earl Winfrey Brian, *Duke*; M.D., *ibid.* (9/1/34); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/34-6/30/35; *Int. in Path.*, Duke Hospital, 7/1/35-6/30/36; *Ass't. Res. in Med. and Res. Physician*, Henry Ford Hospital, 7/10/36-8/31/38; *present address (in practice)*, Raleigh, N. C.
- William Henry Bridgers, *Duke*; M.D., *ibid.* (6/13/36); *Int. and Ass't. Res. in Surg.*, Duke Hospital, 7/1/36—
- Ernest Bruce Brooks, *Duke*; M.D., *ibid.* (9/2/33); *Int.*, Union Memorial Hospital, Baltimore, 9/3/33-6/30/34; *Ass't. Res.*, Univ. of Maryland Hospital, Baltimore, 7/1/34-6/30/35; *Obs. Outside Service*, Charlotte, N. C., July and August, 1935; *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., September and October, 1935; *present address (in practice)*, 515 Reynolds Bldg., Winston-Salem, N. C.
- Frank Woolridge Buckner, *Davidson*; M.D., *Duke* (6/13/36); *Int. in Surg.*, Duke Hospital, 7/1/36-2/28/37; *Int. in Surg. and Int. and Ass't. Res. in Ear, Nose and Throat*, New Haven Hospital, 3/1/37—
- Arthur Raymond E. Buirge, *Drake, Duke*; M.D., *latter* (12/18/34); *Int. in Obs. and Gyn. and in Surg.*, 1/1/35-6/30/36; and *Ass't. and Res. in Surg.*, Univ. of Minnesota Hospitals, 7/1/36-6/30/38; *Trainee in Cancer*, U. S. Pub. Health Service, 7/1/38—
- Benjamin Brooks Burrill, Jr., *Dartmouth, Duke*; M.D., *latter* (6/13/36); *Int., rotat.*, Mountaineer Hospital, Montclair, N. J., 7/1/36-12/31/37; *Res.*, Essex County Isolation Hospital, Belleville, N. J., 1/1-7/31/38; *present address (in practice)*, Pompton Plains, N. J., 9/6/38—
- John C. Burwell, Jr., *Duke, Harvard*; M.D., *former* (9/2/33); *Int.*, New York Postgraduate School and Hospital, New York City, 9/3/33-6/30/34; and *in Obs. and Gyn.*, New York Hospital, 9/1/34-6/30/35; and Bellevue Hospital, New York City, 7/1/35-6/30/36; *present address (in practice)*, Greensboro, N. C.
- Jasper Lamar Callaway, *Alabama*; med. stud., *ibid.*, 1929-31; M.D., *Duke* (12/21/32); *Fellow*, Univ. of Pennsylvania Hospital, Philadelphia, Pa., 1/1-6/30/33; *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/33-1/23/35; *Instr. in Phys. Diag.*, Univ. of Alabama School of Medicine, 2/1-5/31/35; *Instr. in Derm. & Syphil.*, Univ. of Pennsylvania Hospital, 6/15/35-6/30/37; *Instr. and Assoc. in Derm. & Syphil.*, Duke Hospital, 7/1/37—
- James Henderson Cherry, *Mars Hill*; M.D., *Duke* (12/19/33); *Int.*, Goldsboro City Hospital, Goldsboro, N. C., 1/1-6/30/34, and *in Surg.*, Duke Hospital, 7/1/34-6/30/35; *Fellow in Orth. Surg.*, Mayo Clinic, 7/1/35-7/14/37; *present address (in practice)*, Hot Springs, Va.
- Charles Francis Chunn, *Duke*; M.D., *ibid.* (12/20/35); *Int. in Surg.*, Duke Hospital, 1/1/36-4/30/37; *Ass't. Res. in Surg.*, Henry Ford Hospital, Detroit, 5/10/37—
- Milton Carpinter Cobey, *Amherst*; M.D., *Duke* (9/1/34); *Int. in Orth. and in Surg.*, and *Ass't. Res. and Res. in Orth.*, Johns Hopkins Hospital, 9/1/34—
- Charles Anthony Collins, *Columbia*; M.D., *Duke* (8/31/35); *Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/35-8/31/37; *present address (in practice)*, White Plains, N. J.
- Martin Edward Conti, *West Va.*; med. stud., *ibid.*, 1929-31; M.D., *Duke* (3/22/33); *Int. in Obs. and Gyn.*, Duke Hospital, 3/23-8/31/33; *rotating*, Watts Hospital, Durham, N. C., 9/1/33-8/31/34, and City Hospital, Mobile, Ala., 7/1/34-6/30/35; *present address (in practice)*, 303 Home Savings Loan Bldg., Youngstown, Ohio.
- Gabriel Hernando Cortes, *Michigan, Duke*; M.D., *latter* (12/20/35); *Int. in Med.*, New York Postgraduate Hospital, 1/1/36-12/31/37; *present address (in practice)*, Bogota, Colombia, S. A.

\* See footnote, p. 63.

- Kenneth John Costich, *Holy Cross*; M.D., Duke (12/20/35); *Int., rotat.*, New York Polyclinic Hospital, 1/1-4/3/36; *Int.*, Hugh Chatham Memorial Hospital, Elkin, N. C., 7/25/36-6/30/37; *Int., rotat.*, Ellis Hospital, Schenectady, N. Y., 7/12/37-6/30/38; *Associate Physician*, Veterans Administration Bureau, Livermore, Calif.
- Felix Hughs Crago, *West Va.*; med. stud., *ibid.*, 1931-33; M.D., Duke (6/8/35); *Int., rotat.*, Ancker Hospital, St. Paul, Minn., 7/1/35-6/30/36; *Fellowship in Med.*, Univ. of Minnesota, 7/1/36—
- Charles Cramer, *Cooper Union, Columbia*; M.D., Duke (8/31/35); *Int. in Med.*, Vanderbilt University Hospital, 9/1/35-6/30/36; *Res. in Path.*, St. John's Hospital, Brooklyn, N. Y., 7/1/36-6/30/37; *Ass't. Res. and Res. in Med.*, Queen's General Hospital, New York City, 7/1/37—
- Maurie Bertram Cree, *Wake Forest*; M.D., Duke (12/19/34); *Int., rotat.*, Baptist Memorial Hospital, Memphis, Tenn., 1/10/35-6/30/36; *Gen'l. Res. and Res. in Surg.*, Greenville General Hospital, Greenville, S. C., 7/1/36-6/30/37; *in practice*, Newport News, Va., 7/1-11/30/37; *Res.*, Rex Hospital, Raleigh, N. C., 12/1/37-6/30/38; *Res. in Surg.*, James Walker Memorial Hospital, Wilmington, N. C., 7/1/38—
- Bennie Booker Dalton, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int.*, McKeesport Hospital, McKeesport, Pa., 7/1-7/31/32; and Watts Hospital, Durham, N. C., 8/1/32-7/31/33, and Wassaic State School, Wassaic, N. Y., 10/10/33-10/10/34; *County Health Officer*, Rockingham, N. C., 1/1/35-10/31/36; *present address (in practice)*, Liberty, N. C.
- William Howard Darden, *Alabama*; med. stud., *ibid.*, 1929-31; M.D., Duke (12/21/32); *Int. and Ass't. Res.*, Northwestern Hospital, Minneapolis, Minn., 1/1/33-12/31/34; *in practice*, 214½ Vermillion St., Hastings, Minn., 7/1-12/15/35; *present address*, Emergency Hospital of the Tennessee Coal, Iron and Railroad Co., Ensley, Birmingham, Ala.
- John Sinclair Denholm, *Pittsburgh*; M.D., Duke (11/30/35); *Int. in Med.*, Duke Hospital, 12/1/35-8/31/36; *Ass't. and Clinic Phys.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 7/1/36—
- Rudolph John Depner, *Rhode Island State, Missouri*; med. stud., latter, 1928-30; M.D., Duke (3/19/32); *Int.*, Kansas City Hospital, 7/1/32-6/30/33; *Ass't. Res. and Ass't. Supt.*, Exeter School, Lafayette, R. I., 7/1/33-7/31/35; *Med. Int. and Ass't. Phys. in Psychiatry*, Child Guidance Clinic, Wassaic State School, 8/1/35—
- John William Devine, Jr., *Washington and Lee*; M.D., Duke (3/21/35); *Int. in Surg.*, and *Ass't. Res. in Surg. and Path.*, Duke Hospital, 7/1/35-6/30/38; *present address (in practice)*, Lynchburg, Va.
- Leslie Van Dyke Dill, *Duke*; M.D., *ibid.* (6/13/36); *Int. in Med.*, Vanderbilt Univ. Hospital, 7/1/36-6/30/37; *Jr. Ass't. in Path.*, Duke Hospital, 7/1/37-6/30/38; *Int.*, New York City Lying-in Hospital (Cornell Medical Center), 7/1/38—
- Benjamin George Dinin, *New York Univ., Alabama*; M.D., Duke (9/2/33); *Int. in Med.*, Duke Hospital, 9/3/33-8/31/34; *Ass't. Res.*, New York Hospital, New York City, 9/1/34-6/30/35; *Int. in Ped.*, Brooklyn Jewish Hospital, Brooklyn, N. Y., 7/1/35-6/30/36; *Res. in Communicable Diseases*, Kingston Ave. Hospital, Brooklyn, N. Y., 7/1/36—
- Grant Lester Donnelly, *Duke, Chicago*; med. stud., North Carolina, 1927-30; M.D., Duke (6/10/33); *Int. in Obs. and Gyn.*, Duke Hospital, 6/12-8/31/33; *Assoc. Prof. in Phar.*, Univ. of North Carolina, 9/1/35—
- Raymond John Duffy, *Pittsburgh*; med. stud., West Va., 1929-31; M.D., Duke (6/10/33); *Int.*, Boston Psychopathic Hospital, 7/1/33-6/30/34; *Staff Member*, McLean Hospital, Waverley, Mass., 7/1/34-4/30/35; *Int.*, 5/1/35-12/31/36, and *Psychiatrist in Charge*, Carney Hospital, 1/1/37-6/30/38; *Staff Psychiatrist*, Mass. General and St. Elizabeths Hospitals, and *in practice*, 482 Beacon St., Boston, Mass., 7/1/36—

\* See footnote, p. 63.



- Elbert Newton DuPuy, *West Virginia*; med. stud., *ibid.*, 1928-39; M.D., Duke (3/19/32); *Int., rotat.*, Church Home and Infirmary, Baltimore, Md., 7/1/32-6/30/33; *Ass't. Res. and Res. in Obs. and Gyn.*, University of Maryland Hospital, Baltimore, Md., 7/1/34-6/30/36; *in practice*, Buchanan Co., Va., 7/1/36-2/28/37; *Surgeon*, SS "City of Norfolk," 3/1-9/30/37; *present address (in practice)*, Beckley, W. Va.
- Eleanor Beamer Easley, *Idaho, Iowa, George Peabody, Vanderbilt*; M.D., Duke (3/21/34); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 3/25-5/31/34; *Int. and Ass't. Res. in Med.*, and *Int. and Ass't. Res. in Obs. and Gyn.*, Duke Hospital, 7/1/34—
- John Watson Edwards, *New Mexico Military Institute, Duke*; M.D., latter (6/13/36); *Int. and Ass't. Res. in Pcd.*, University of California Hospital, San Francisco, Cal., 9/1/37—
- William Dempsey Farmer, *Duke*; M.D., *ibid.* (6/9/34); *Int. in Med.*, Baltimore City Hospitals, 7/1/34-6/30/35; *Int. in Surg.*, and *Int., Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/35—
- Alvis Dare Finch, *Duke*; M.D., *ibid.* (6/8/35); *Int., rotating and in Surg.*, Harper Hospital, Detroit, 6/28/35-6/14/37; *Ass't., Emergency Ward Staff*, Detroit City Receiving Hospital, 6/15/37—
- Max Wolff Fischbach, *Catawba*; M.D., Duke (6/13/36); *Int., rotating*, Philadelphia Jewish Hospital, 6/15/36-6/30/38; *present address (in practice)*, 4917 N. Broad St., Philadelphia, Pa.
- John Dean Fitzgerald, *Duke*; M.D., *ibid.* (9/1/34); *Int., rotating and in Surg.*, Watts Hospital, Durham, N. C., 9/1/34-6/30/36; *Ass't. in Gen'l.*, Rainey Hospital, Burlington, N. C., 7/1/36-6/30/37; *Associate*, Alamance General Hospital, Burlington, N. C., 7/1-12/31/37; *present address (in practice)*, Durham, N. C.
- John Stewart Forbes, Jr., *Duke*; M.D., *ibid.* (12/18/34); *Int., rotating.*, Jersey City Medical Center, 1/1/35-1/1/36; *Res. in Psychiatry*, New Jersey State Hospital, 2/1/36—
- William Nicholas Fortescue, *Duke*; M.D., *ibid.* (6/9/34); *Int. and Ass't. Res. in Med.*, Long Island Hospital, Boston, Mass., 7/1/34-5/31/36; *present address (in practice)*, Hendersonville, N. C.
- Herbert Junius Fox, *North Carolina, Duke*; M.D., latter (8/31/35); *Int. and Ass't. Res. in Med.*, University Hospitals of Cleveland, 11/1/35-6/30/38; *Fellow*, Thorndike Institute of the Boston City Hospital, and *Assoc. Instr. in Med.*, Harvard Medical School, 9/1/38—
- William Penn Frazer, *Richmond*; M.D., Duke (9/2/33); *Int., Stud. Health Serv.*, Duke Hospital, 10/1/33-6/30/34; *Int. in Obs. and Gyn.*, Johns Hopkins Hospital, 9/1/34-8/15/35; *Int. in Pcd.*, Bellevue Hospital, New York City, 8/15-12/31/35; *present address (in practice)*, Hamilton, Va.
- Gustave Freeman, *Georgia, Brown, Columbia*; M.D., Duke (9/2/33); *Int. in Med.*, Duke Hospital, 9/3/33-6/30/34; *Int. and Ass't. Res. in Path.*, New Haven Hospital, and *Ass't. in Path.*, Yale School of Medicine, 7/1/34-12/31/35; *Ass't. in Med.*, Univ. of Chicago Clinics, 1/1/36—
- James Francis Fulp, *Vanderbilt, Duke*; M.D., latter (6/8/35); *Int.*, Goldsboro City Hospital, Goldsboro, N. C., 7/1-8/31/35; *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 9/1-12/31/35; *Int., rotating*, Jersey City Medical Center, Jersey City, N. J., 1/1/36-6/30/37; *present address (in practice)*, Stoneville, N. C.
- Jerome Gaskel, *West Virginia*; med. stud., *ibid.*, 1929-31; M.D., Duke (3/22/33); *Int.*, City of Cincinnati General Hospital, 4/1/33-6/30/34; *Ass't. Res.*, Boston Floating Hospital, 10/1/34-9/30/35; *Res. in Surg.*, Huntington Memorial Hospital, Huntington, W. Va., 11/1/35-3/31/36; *present address (in practice)*, Williamson, West Va.

\* See footnote, p. 63.

- Charles Houston Gay, *Duke*; med. stud., North Carolina, 1929-31; M.D., Duke (3/22/33); *Int. in Ped.*, New York Hospital, New York City, 3/20-9/30/33; *Int. in Ped.*, New Haven Hospital, 10/1/33-10/31/34; *Ass't. Res. in Ped.*, Duke Hospital, 11/1/34-6/30/36; *in practice*, Martinsburg, W. Va., Dec., 1936-May, 1938; *present address (in practice)*, Professional Bldg., Charlotte, N. C.
- Cole Deane Genge, *Ripon, Stanford*; M.D., Duke (12/18/34); *Int., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/35-6/30/36; *Int.*, Duke Hospital, 11/17-12/31/36, and *House Officer and Res. in Roent.*, Boston City Hospital, 1/1/37—
- Harry-Rolf Germer, *Deutsche Aufbauschule*; med. stud., Jena, 1930-33; M.D., Duke (3/21/36); N. C. State Board of Health, Chapel Hill, N. C., 6/10-9/30/36; *Ass't. Health Officer*, County Health Department, Winston-Salem, N. C., 10/1/36-6/30/37; *Int., Public Health Serv.*, U. S. Marine Hospital, Baltimore, 7/1/37-6/30/38; *Ass't. Health Officer*, Winston-Salem, N. C., 9/1/38—
- Richard Hobart Godwin, *New York, Duke, Illinois*; M.D., Duke (6/9/34); *Int., rotating*, Cumberland Street Hospital, Brooklyn, N. Y., 7/1/34-6/30/36; *Int. and Ass't. Res. in Ped.*, New York Hospital, 7/1/36-6/30/38—
- Abner Gorfain, *New York, North Carolina*; M.D., Duke (9/1/34); *Int.*, Christ Hospital, Cincinnati, O., 9/1/34-8/31/35; *Int. in Surg.*, Bellevue Hospital, 9/1/35-2/29/36; and *Res. in Urol.*, Postgraduate Hospital, New York City, 6/1/36-5/31/37; *present address (in practice)*, Westwood, Calif.
- Robert Williams Graves, *Davidson, Princeton*; M.D., Duke (9/2/33); *Int. and Ass't. Res. in Med.*, New Haven Hospital, 1/1/34-12/31/35; *Postgraduate work*, National Hospital, London, Eng., 1/1-6/30/36; *Instr. in Med. and Anat.*, and *Assoc. in Neurol.*, Duke University School of Medicine, 7/1/36—
- Jack Greenfield, *Johns Hopkins*; M.D., Duke (8/31/35); *Int. in Surg.*, Duke Hospital, 9/1/35-6/30/36; *Int., rotating*, Flower and Fifth Avenue Hospital, 7/1/36-6/30/37; and *Res. in Surg.*, York Hospital, New York City, 7/15/37-5/31/38; *Ass't. Res. in Surg.*, Starling Loving Hospital, Ohio State University, Columbus, Ohio, 6/15/38—
- William Lorenz Haltom, *Hendrix, Alabama*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg. and Ass't. Res. in Urol.*, Duke Hospital, 7/1/32-11/30/33; *Res.*, Presbyterian Hospital, Chicago, Ill., 1/1-12/31/34; *Ass't. Res. and Res. in Urol.*, Duke Hospital, 1/1/35-12/31/36; *present address (in practice)*, City Hospital, Martinsburg, W. Va.
- Robert Albert Hare, *Ohio State*; M.D., Duke (9/1/34); *Int. in Med.*, French Hospital, New York City, 9/1/34-6/10/35; *Int., Ass't. Res. and Ass't. Mellon Fellow in Ophthal.*, Johns Hopkins Hospital, 9/1/35—
- George Thomas Harrell, Jr., *Duke*; M.D., *ibid.* (6/13/36); *Int. in Med. and Jr. Ass't. in Path.*, Duke Hospital, 7/1/36-12/17/37; *Director of Laboratories and Pathologist*, City Memorial Hospital, Winston-Salem, N. C., 12/18/37-6/30/38; *Ass't. Res. in Med.*, Duke Hospital, 7/1/38—
- H. Patterson Harris, Jr., *Yale*; M.D., Duke (3/21/36); *Int. in Surg. and Neuro-Surg.*, Massachusetts General Hospital, Boston, 4/15-12/31/36; *House Officer, rotating*, Faulkner Hospital, Boston, 7/1/37-10/15/38—
- Walter Thalman Hasler, Jr., *Brigham Young*; med. stud., Utah, 1929-31; M.D., Duke (3/22/33); *Int., rotating*, Church Home & Infirmary, Baltimore, Md., 7/1-6/30/34; *Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/34-6/30/36; *present address (in practice)*, Everett, Wash.
- George Heinitch, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg., Ass't. Res. in Priv. Diag. Clinic, and Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/32-3/31/37; *in practice*, Logan, West Va., March, 1937-Aug., 1938; *present address (in practice)*, Fayetteville, N. C.

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\* See footnote, p. 63.

- Harry Myer Holtz, *Ohio State, Columbia, Duke*; M.D., Duke (6/8/35); *Int., rotating*, Newark Beth Israel Hospital, Newark, N. J., 1/1-12/31/36; *Ass't. in Eye Clinic*, St. Michael's Hospital, Newark, 1/7-9/30/37; *Postgraduate work*, Royal London Ophthalmic Hospital, London, 9/25/37-2/28/38; *Post-graduate work*, Union Eye Clinic, Debrecen, Hungary, 3/1-4/30/38; *Eye service*, St. Michael's Hospital, Newark, N. J., 5/15/38-6/30/38; *present address (in practice)*, Newark, N. J.
- Jay Leonard Hutchison, *Marshall*; M.D., Duke (12/19/33); *Int. in Surg.*, Duke Hospital, 1/1-6/30/34; *Res.*, N. C. Orthopedic Hospital, Gastonia, N. C., 7/1/34-6/30/35; *Res. in Orth.*, Duke Hospital, 7/1/35-2/29/36; *Res.*, N. C. Orthopedic Hospital, 3/1-3/15/36; *Res. in Orth.*, Univ. of Virginia Hospital, 3/16-5/31/36; and Logan General Hospital, Logan, W. Va., 6/1/36-5/31/37; *present address (in practice)*, Huntington, West Va.
- Arthur M. Jenkins, *Springfield, Simpson*; M.D., Duke (12/20/35); *Int., rotating and Ass't. Res. in Ped.*, Union Memorial Hospital, Baltimore, Md., 1/1/36-6/30/37; *Ass't. Res. in Med.*, Medical College of Virginia Memorial Hospital, Richmond, Va., 7/1/37-6/30/38; *present address (in practice)*, Frenchtown, N. J.
- Raymond Taylor Jenkins, *North Carolina*; M.D., Duke (6/8/35); *Int. in Surg.*, Duke Hospital, 7/1-11/24/35; *Int. and Ass't. Phys.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 4/1/36-10/31/37; *Ass't. Phys.*, Western N. C. Sanatorium, Black Mountain, N. C., 11/1-12/31/37; *Clinic Phys.*, N. C. Sanatorium, Sanatorium, N. C., 1/1/38—
- Julia Mary Jones, *Denison, Ohio State*; M.D., Duke (3/21/35); *Int. in Med.*, Johns Hopkins Hospital, 3/22-6/30/35; *Vol. Ass't.*, New York State Hospital, Raybrook, N. Y., 9/1-12/31/35; *Ass't. in Anat.*, Duke Med. Sch., and *Int. and Ass't. Res. in Med.*, Duke Hospital, 1/1/36-12/31/37; *Ass't.*, William H. Maybury Sanatorium, Northville, Mich., 1/1/38—
- Roderic Orlando Jones, *Johns Hopkins, John B. Stetson*; M.D., Duke (12/20/35); *Int. in Med.*, University of Chicago Clinics, 1/1-12/31/36; *Int.*, Baker Sanatorium, Lumberton, N. C., 1/1/37-2/28/38; *Stud. in N. C. State Pub. Health Serv.*, Chapel Hill, N. C., 3/7-6/30/38; *present address (in practice)*, Burnsville, N. C.
- Austin Louis Joyner, *Millsaps, Tulane*; M.D., Duke (9/1/34); *Int., rotating*, Goldsboro City Hospital, Goldsboro, N. C., 9/1-9/30/34; *Fellow in Bact. and Int. in Med.*, Duke Hospital, 10/1/34-6/30/36; *Ass't. in Path. and Bact.*, Rockefeller Institute, 7/1/36-6/30/38; *Ass't. Prof. of Bact. and Path.*, University of Alabama School of Medicine, Tuscaloosa, Ala., 9/1/38—
- George William Joyner, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int., Ass't. Res. and Res. in Surg.*, Duke Hospital, 7/1/32-8/31/38; *present address (in practice)*, Asheboro, N. C.
- Rayburn Nelson Joyner, *Wake Forest*; M.D., Duke (9/2/33); *Junior and Senior Int., rotating*, Jacksonville Duval County Hospital, Jacksonville, Fla., 9/3/33-6/30/35; *in practice*, Hastings, Fla., 7/1/35-6/30/36; *Director*, Bureau of Maternal and Child Health, Jacksonville, Fla., 9/1/36—
- William Paul Kavanagh, *Wheaton*; M.D., Duke (8/31/35); *Int., rotating*, Highland Park General Hospital, Detroit, 7/1/36-6/30/37; *Ass't. Res. in Surg.*, Watts Hospital, Durham, N. C., 7/1/37-6/30/38; *present address (in practice)*, Cooleemee, N. C.
- Charles Mattox Kendrick, *Duke*; med. stud., *ibid.*, North Carolina, 1929-31; M.D., Duke (6/10/33); *Int.*, Wheeling Hospital, Wheeling, W. Va., 7/1/33-6/30/34; *Ass't. to Dr. W. P. Sammons*, Wheeling, 7/1/34-6/30/36; *Senior Int., Ass't. Res. and Res. in Med.*, Medical College of Virginia Memorial Hospital, Richmond, Va., 10/1/36—
- Beverly Randolph Kennon, III, *Virginia, William and Mary*; M.D., Duke (9/1/34); *Int. in Med.*, Johns Hopkins, 9/1/34-8/31/35; *Int. in Ophth., and Junior House Surgeon*, New York Eye & Ear Infirmary, 10/1/35-12/31/38; *present address (in practice)*, Norfolk, Va.

\* See footnote, p. 63.



- Jeremiah Wolfe Kerner, *Georgia*; M.D., Duke (9/5/36); *Int., rotating, and Maternity Service*, Los Angeles County Hospital, 10/1/36-12/26/37; *Res., Outside Obs.*, Los Angeles County Hospital, 12/27/37-6/30/38; *Res.*, Rancho Los Amigos, Hondo, Calif., 7/1/38—
- Thomas deArman Kinney, *Pennsylvania*; M.D., Duke (9/5/36); *Int. in Med. and in Urol.*, Johns Hopkins Hospital, 9/6/36-8/31/38; *Ass't. in Path.*, Yale Medical School, and *Int. in Path.*, New Haven Hospital, 9/1/38—
- Orrin Frank Kleckner, *Buffalo, Duke*; med. stud., Vanderbilt, 1929-31; M.D., Duke (12/21/32); *Int. and Ass't. Res. in Med.*, Millard Fillmore Hospital, Buffalo, N. Y., 7/1/33-2/26/35; *Res. in Med.*, Pontiac General Hospital, Pontiac, Mich., 2/27/35-6/30/36; *present address (in practice)*, Seco, Ky.
- Frederick Robert Klenner, *St. Vincent, St. Francis, Catholic*; M.D., Duke (3/21/36); *Int.*, Goldsboro City Hospital, Goldsboro, N. C., 4/1-8/31/36; Moore County Hospital, Inc., Pinehurst, 9/1/36-6/30/37; and N. C. State Sanatorium, Sanatorium, N. C., 10/1/37-4/30/38; *Ass't. Phys.*, Forsyth County Sanatorium, Winston-Salem, N. C., 5/10/38—
- Charles Edward Leach, *Johns Hopkins, Duke*; M.D., latter (6/8/35); *Int., rotating, and Res. in Med.*, San Diego County General Hospital, 9/1/35-8/31/36; *Ass't. Res. in Med.*, Duke Hospital, 9/1/36-8/31/37; and University of Cleveland Hospitals, 9/1/37-8/31/38; *Res. in Cardiol.*, Massachusetts General Hospital, 9/1/38—
- William Arthur Leff, *Franklin and Marshall*; M.D., Duke (12/19/36); *Int., rotating*, Essex County Hospital for Contagious Diseases, Belleville, N. J., 1/1-3/31/37; and Newark City Hospital, 4/1/37—
- David Washington Lester, *Wichita*; M.D., Duke (6/8/35); *Int., rotating, and Res. in Med.*, San Diego County General Hospital, San Diego, Cal., 7/1/35-6/30/37; *Res. in Neuropsychiatry*, Compton Sanatorium, Compton, Cal., 7/1/37-6/30/39; *Res. in Neuropsychiatry*, Duke Hospital, 1939—
- Gerald Clellan Lewis, *Berea, Carson-Newman*; med. stud., Tennessee, 1929-31; M.D., Duke (3/22/33); *Int., rotating*, Pasadena Hospital, Pasadena, Cal., 10/15/33-7/15/34; *Int. and Res., rotating*, St. Joseph's Hospital, Phoenix, Ariz., 11/20/34-11/27/36; *in practice*, Kenvir, Ky., 11/1/37-7/12/38; *present address (in practice)*, Chloride, Ariz.
- John Fletcher Lovejoy, *Emory*; med. stud., Alabama, 1928-30; M.D., Duke (6/11/32); *Int. in Med.*, Duke Hospital, 7/1/32-6/30/33; *Int. in Orth.*, Shriners Hospital, Springfield, Mass., 7/8/33-6/30/34; *Fellow and Ass't. in Orth.*, Dr. William C. Campbell Clinic, Memphis, Tenn., 7/1/34-6/30/36; *present address (in practice)*, 1022 Park Ave., Jacksonville, Fla.
- Durward Lee Lovell, *Birmingham-Southern, Alabama*; med. stud., latter, 1929-31; M.D., Duke (12/19/36); *Int. and Ass't. Res. in Surg.*, Duke Hospital, 7/1/38—
- George Kenneth Mahl, *Ohio State, Duke*; M.D., latter (3/21/34); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 3/22-6/1/34; *Int., rotating*, Christ Hospital, Jersey City, N. J., 7/1/34-6/30/35; *Int. in Obs. and Gyn.*, Duke Hospital, 7/1-11/20/35; *Senior Int., rotating*, Christ Hospital, 12/1/35-3/31/36; *present address (in practice)*, Ironton, O.
- Samuel Jeremiah Margolin, *Duke*; M.D., *ibid.* (3/21/34); *Int., rotating*, Jersey City Medical Center, 3/22/34-6/30/35; *Res. in Otolaryn.*, Beth Israel Hospital, 7/1/35-6/30/36; *present address (in practice)*, Union City, N. J.
- Donald Feige Marion, *Duke*; M.D., *ibid.* (8/31/35); *Int. in Med. and Ass't. in Gastro-Enterology*, Henry Ford Hospital, Detroit, 9/1/35—
- George Kemp Massengill, Jr., *Duke*; M.D., *ibid.* (6/13/36); *Int. in Surg.*, Henry Ford Hospital, Detroit, 7/1/36-6/30/37; *Senior Int. in Surg.*, Henry Ford Hospital, 9/1/37-8/31/38; *Res., general*, Martinsburg City Hospital, Martinsburg, West Va., 9/1/38—
- Bernyrd Carlyle McLawhorn, *Furman*; M.D., Duke (6/8/35); *Int. and Res., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/35-6/30/37; *present address (in practice)*, Williamsburg, S. C.

\* See footnote, p. 63.

- Robert Lindsay McMillan, *Davidson, North Carolina*; M.D., Duke (9/2/33); *Int. in Med.*, University Hospitals of Cleveland, 9/3/33-6/30/34; *Ass't. Res. in Med. and in Bact., and Res. in Med.*, Duke Hospital, 11/1/34-7/31/37; *present address (in practice)*, Winston-Salem, N. C.
- Philip Joseph McNamara, *Holy Cross, Georgetown*; spec. med. stud., latter, 1927-31; and S. S., Harvard, 1929; M.D., Duke (9/5/36); *Int., rotating*, Georgetown University Hospital, 9/6/36-8/31/37, and U. S. Naval Hospital, Washington, D. C., 9/1/37-8/31/38; *Ass't. Res. in Urol.*, U. S. Naval Hospital, Washington, D. C., 9/1/38—
- Elijah Eugene Menefee, Jr., *Virginia*; M.D., Duke (6/13/36); *Int.*, New York State Sanatorium, Raybrook, N. Y., 7/1-8/31/36; *Int. in Med.*, Duke Hospital, 9/1/36-6/30/37; *Research Fellow in Med. and Bact.*, Duke Medical School, 7/1/37-6/30/38; *Res. in Tbc.*, Bellevue Hospital, New York City, 1/1/39—
- Robert Felton Mikell, *John B. Stetson, Georgia*; M.D., Duke (12/19/33); *Int., Ass't. Res., Res. and Instr., in Ped.*, Strong Memorial Hospital, Rochester, N. Y., 9/1/33-6/30/36; *Int.*, Iola Sanatorium, Rochester, N. Y., 7/1/36-11/30/36; *present address (in practice)*, Lakeland, Fla.
- Ben Neely Miller, Jr., *Duke*; M.D., *ibid.* (6/8/35); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/35-6/30/37; *Instr. in Phys. Diag. and Ass't. in Chem.*, University of Alabama Medical School, 9/1/37-6/30/38; *present address (in practice)*, Columbia, S. C.
- Charles Francis Montgomery, *Drury, Missouri*; med. stud., latter, 1929-31; M.D., Duke (3/22/33); *Int. in Surg. and Ass't. Res. and Res. in Orth. and Surg.*, Henry Ford Hospital, Detroit, Mich., 9/1/33-8/31/37; *Voluntary Ass't. in Otolaryn.*, Duke Hospital, 9/1-12/31/37; *present address (in practice)*, Roswell, N. M.
- Arch Sherrod Morrow, *Davidson*; M.D., Duke (12/19/36); *Int., rotating*, Church Home and Infirmary, Baltimore, 12/28/36-6/30/37; and Presbyterian Hospital, Chicago, 7/1/37-10/31/38; *Instr. in Phys. Diag.*, University of Alabama School of Med., 12/1/38—
- Vince Moseley, *Clemson, Duke*; M.D., latter (12/19/36); *Int.*, N. C. State Sanatorium, Sanatorium, N. C., 1/1-4/15/37; and Sydenham Hospital, Baltimore, 5/1-6/30/37; *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/37—
- Robert McGee Mullen, II, *Pittsburgh*; M.D., Duke (9/1/34); *Int. in Path.*, Baltimore City Hospitals, 9/1/34-8/31/35; *Int. in Obs.*, Johns Hopkins Hospital, 9/1/35-8/31/36, and Boston Lying-in Hospital, Boston, Mass., 9/1-12/31/36; *present address (in practice)*, Pasadena, Cal.
- Henry Stokes Munroe, Jr., *Davidson*; M.D., Duke (6/8/35); *Int. in Med., and Int. and Ass't. Res. in Surg.*, Duke Hospital, 7/1/35-6/30/38; *Fellow in Surg.*, Lahey Clinic, Boston, Mass., 9/1/38—
- Arthur Neumaier, *Columbia*; M.D., Duke (6/8/35); *Int. in Ped.*, University of Chicago Clinics, 7/1/35-5/31/36; *1st. Lieut., Med. Reserve*, C. C. C., Aberdeen, N. C., 6/1-11/30/36; *Int., rotating*, St. Mary's Hospital, Duluth, Minn., 1/1-9/6/37; *Res., rotating*, Raiter Hospital and Clinic, Cloquet, Minn., 9/7-12/31/37; *present address (in practice)*, Lindstrom, Minn.
- Francis Leroy Owens, *Pittsburgh*; M.D., Duke (9/1/34); *Int. in Surg.*, Duke Hospital, 9/1-12/31/34; *Int., rotating*, Moore County Hospital, Inc., Pinehurst, N. C., 1/6/35-8/31/36; *present address (in practice)*, Pinehurst, N. C.
- Daniel Jack Pachman, *New York, North Carolina*; M.D., Duke (9/1/34); *Int. in Ped.*, University of Chicago Clinics, 9/1/34-8/31/35; *Int., in Ped.*, New York Hospital, 9/1/35-6/30/36; *Ass't. Res. in Ped.*, Duke Hospital, 7/1/36-6/30/37; *Instr. in Ped.*, University of Chicago Clinics, 7/1/37—
- Edward Frost Parker, Jr., *South Carolina*; M.D., Duke (9/2/33); *Int. in Surg.*, Strong Memorial Hospital, Rochester, N. Y., 9/3/33-6/30/34; and Vanderbilt Univ. Hospital, 7/1/34-6/30/35; *Ass't. Res. in Surg.*, University of Virginia Hospital, 7/1/35-6/30/36; *Ass't. in Surg.*, Vanderbilt University Medical School; *Ass't. Res. and Res. in Surg.*, Vanderbilt University Hospital, 7/1/36—

\* See footnote, p. 63.

- Philip Brower Parsons, *Duke*; M.D., *ibid.* (3/21/36); *Int. in Surg. and Int. and Jr. Ass't. in Path.*, Duke Hospital, 7/1/36-6/30/38; *Res. in Roent.*, Duke Hospital, 7/1/38—
- Talmage Lee Peele, *Duke*; med. stud., Vanderbilt, 1929-31; M.D., Duke (6/9/34); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/34-6/30/36; *Int. and Res. in Neurol.*, Bellevue Hospital, New York City, 7/1/36-6/30/37; *Ass't. in Anat.*, Johns Hopkins Medical School, 9/1/37-8/31/38; *Instr. in Anat.*, Univ. of Rochester Medical School, 9/1/38—
- Michael Theodore Pishko, *Pittsburgh*; M.D., Duke (6/13/36); *Int., rotating*, Pittsburgh Hospital, 7/1/36-6/30/37; *Int. and Res.*, Moore County Hospital, Inc., Pinehurst, N. C., 7/1/37—
- Marion Timothy Plyler, Jr., *North Carolina State, Duke*; M.D., *ibid.* (12/19/33); *Int.*, N. C. Sanatorium for the Treatment of Tuberculosis, Sanatorium, N. C., 1/1-6/1/34; *Int., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/34-6/30/35; *Int.*, N. C. Sanatorium, 7/1/35-3/31/36; *Ass't. Director*, N. C. Public Health Service, 5/1/36-4/30/37; *present address (in practice)*, Nashville, N. C.
- John Fairman Preston, Jr., *Davidson*; M.D., Duke (6/8/35); *Int., rotating*, Piedmont Hospital, Atlanta, Ga., 7/1/35-6/30/36, and in *Path.*, Duke Hospital, 7/1/36-6/30/37; *Gen'l. Ass't.*, Alexander Hospital, Soonchun, Korea, 9/1/37—
- Leo Bernard Provinsky, *Grove City*; M.D., Duke (12/19/36); *Int.*, City Hospital, Martinsburg, W. Va., 12/23/35-12/23/37; *Int. and Res. in Med.*, Duval County Hospital, Jacksonville, Fla., 1/1/38—
- Robert Harry Pudenz, *Dayton*; M.D., Duke (6/8/35); *Voluntary Ass't. in Neurol.*, National Hospital, London, England, 7/1-12/15/35; *Int. in Surg.*, Duke Hospital, 1/1-9/30/36, and in *Neuro-Surg.*, Royal Victoria Hospital, Montreal, Canada, 10/1/36—
- Richard Zimri Query, Jr., *Davidson*; M.D., Duke (9/1/34); *Int., rotating*, Henry Ford Hospital, Detroit, 9/1/34-8/31/35; *Ass't. Res. and Res. in Med.*, Duke Hospital, 10/1/35-6/30/38; *present address (in practice)*, Charlotte, N. C.
- Raymond Hamilton Ralston, *State Teachers, Geneva*; M.D., Duke (9/1/34); *Int., rotating*, Postgraduate Hospital, Univ. of Pennsylvania, 9/1/34-6/30/36; *Med.*, R. O. C., Carlisle, Pa., 7/5-7/18/36; *present address (in practice)*, Lakeland, Fla., and on staff of *Dept. of Med.*, Morrell Memorial Hospital, Lakeland, Fla.
- Lester Paul Rasmussen, *Snovv, Utah*; med. stud., latter, 1931-33; M.D., Duke (6/8/35); *Int., rotating*, Salt Lake General Hospital, 7/1/35-6/30/36; *Int.*, University of Chicago Clinics, 7/1/36-6/30/37, and *Ass't. Res. and Res. in Ped.*, Duke Hospital, 7/1/37-6/30/38; *present address (in practice)*, Salt Lake City, Utah.
- Howard Lorenzo Reed, *Duke*; M.D., *ibid.* (9/5/36); *Int.*, N. C. State Sanatorium, 10/1-11/30/36; *Int. in Med.*, Roosevelt Hospital, New York City, 1/1/37—
- Paul Gerhard Reque, *Duke*; M.D., *ibid.* (9/2/33); *Int. and Ass't. Res. in Med.*, Duke Hospital, 9/1/33-6/30/35; *Ass't. Res. in Med.*, Lakeside Hospital, Cleveland, O., 7/1/35-6/30/36; *Instr. and Med. Ass't.*, Yale University, 7/1/36—
- Edwin Tyson Ricketts, *Georgia School of Technology, Millsaps, Duke*; M.D., Duke (3/21/36); *Int.*, N. C. State Sanatorium, 3/22-5/12/36; *Int., rotating*, Central Dispensary & Emergency Hospital, Washington, D. C., 7/1/36-6/30/37; *Int. in Med.*, Church Home and Infirmary, Baltimore, 7/1/37-6/30/38; *Ass't. Res. in Biochem.*, Duke Medical School, 7/1/38—
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\* See footnote, p. 63.



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- Frank Hurd Robinson, Jr., *Michigan*; M.D., Duke (6/8/35); *Int. in Med.*, Duke Hospital, 7/1/35-6/30/36; *Field Work*, U. S. P. H. Serv., Mecklenburg Co., N. C., 7/1-12/31/36; *Int. in Ped.*, Johns Hopkins Hospital, 1/1-6/30/37; *Ass't. Res. in Med.*, Rockefeller Institute Hospital, New York City, 7/1/37—
- Kenneth Brown Rothery, *Pittsburgh*; med. stud., *West Va.*, 1929-31; M.D., Duke (12/19/33); *Int., rotating*, Fitkin Memorial Hospital, Neptune, N. J., 1/1/34-6/30/35; *Res. in Surg. and Obs.*, Somerset Hospital, Somerville, N. J., 7/1/35-3/3/36; *present address (in practice)*, Elizabeth, Pa.
- Nathan Ruby, *New York, Virginia*; M.D., Duke (9/2/33); *Int. in Med.*, Sinai Hospital, Baltimore, Md., 7/1/33-6/30/34; *Ass't. Res. and Res. in Ped.*, Jewish Hospital, Brooklyn, 7/1/34-6/30/37; *Int., Res. in Communicable Dis.*, Kingston Ave. Hospital, Brooklyn, 7/1-12/31/37; *present address (in practice)*, 1810 Avenue N, Brooklyn, N. Y., 1/1/38, and *Ass't. on Ped. Serv.*, Jewish Hospital, Brooklyn, N. Y., 7/6/38—
- Edwin Macrae Rucker, *Randolph-Macon*; M.D., Duke (9/1/34); *Int., in Med., and Int. and Ass't. Res. in Obs. & Gyn.*, Duke Hospital, 9/1/34—
- Louis John Saxe, *John Carroll, Duke*; M.D., *ibid.* (9/1/34); *Int. Stud. Health Serv.*, Duke Hospital, 9/1/34-6/30/35; *Res. in Neuro. and Psychiatry*, Univ. of Virginia Hospital, 7/1/35-9/22/36; *Ass't. Sup't.*, Arizona State Hospital, Phoenix, Ariz., 3/1/37—
- Eugene Neston Scadron, *Dartmouth, Yale*; M.D., Duke (9/1/34); *Fellow in Med. and Int. in Surg.*, Duke Hospital, 10/1/34-6/30/36; *Int. and Research Ass't. in Obs. & Gyn.*, Bellevue Hospital, New York City, 7/1/36-2/28/38; *Ass't. Res., Res. and House Officer*, Boston Lying-in Hospital, Boston, 3/1/38—
- Ralph Ernest Schmidt, *Pittsburgh*; M.D., Duke (6/8/35); *Int., rotating*, Hamot Hospital, Erie, Pa., 7/1/35-6/30/36; *Int. in Neuro-Surg.*, Massachusetts General Hospital, Boston, 7/1-9/30/36; *Int., gen'l.*, House of Good Samaritan, Boston, 4/1-6/30/37; *present address (in practice)*, Wesleyville, Pa., and *Ass't. in Med.*, Hamot Hospital, Erie, Pa.
- William Schulze, *Tulane, Richmond*; M.D., Duke (6/13/36); *Int. and Ass't. Res. in Med.*, Duke Hospital, 7/1/36—
- Walter Eugene Sharpe, Jr., *Duke*; M.D., *ibid.* (9/1/34); *Int. and Ass't. Res., rotating, and Ass't. Res. in Urol.*, Henry Ford Hospital, Detroit, 9/1/34-2/28/37; *U. S. Public Health Service*, Marine Hospital, Detroit, 3/1/37—
- Ralph Kenneth Shields, *Pennsylvania State*; M.D., Duke (8/31/35); *Int. and Sr. Int. in Med.*, Henry Ford Hospital, Detroit, 9/1/35-8/31/38; *present address (in practice)*, Bethlehem, Pa.
- Burton Michael Shinnars, *Notre Dame*; M.D., Duke (9/5/36); *Int. in Med.*, Henry Ford Hospital, 9/1/36-8/31/37; *Int. in Ped.*, Duke Hospital, 9/18-12/31/37; *Int. in Neuro-Surg.*, Massachusetts General Hospital, Boston, 1/1-6/30/38; *Ass't. Res. in Med.*, Baltimore City Hospitals, 9/1/38—
- Irving Michael Siegel, *Lehigh*; M.D., Duke (9/1/34); *Int., rotating, and Admitting Phys.*, Kings County Hospital, Brooklyn, N. Y., 9/1/34-9/30/36; *present address (in practice)*, 607 West End Ave., New York City.
- Albert Randall Smith, *Wisconsin*; med. stud., *ibid.*, 1929-32; M.D., Duke (3/21/34); *Int. in Path. and in Surg.*, Duke Hospital, 3/22/34-6/30/35; *Int. and Res. in Orth. Surg.*, State University of Iowa, University Hospitals, 7/1/35—
- John Goodrich Smith, *North Carolina*; M.D., Duke (12/18/34); *Int., rotating*, Goldsboro City Hospital, Goldsboro, N. C., 1/1-6/30/35, and University Hospital, Philadelphia, 7/1/35-6/30/37; *Int. in Med.*, Park View Hospital, and *in practice*, Rocky Mount, N. C., 7/1/37—

\* See footnote, p. 63.

- William Thornton Spence, *Lafayette, Wisconsin, Pennsylvania State, Alabama*; M.D., Duke (3/21/36); *Int.*, N. C. State Sanatorium, Sanatorium, N. C., 4/1-6/1/36; *Int.*, rotating, Mercy Hospital, Pittsburgh, Pa., 7/1/36-6/30/37; *Ass't. Res. in Surg. and Path.*, Memorial Hospital, New York City, 7/1-12/15/37; *Ass't. Phys. and Surg.*, Western N. C. Sanatorium for the Treatment of Tuberculosis, Black Mountain, N. C., 12/16/37—
- William Charles Spring, Jr., *Wisconsin*; M.D., Duke (9/5/36); *Int. in Med.*, University Hospitals of Cleveland, 10/15/36-2/28/38; *Ass't. Res. in Med.*, Lakeside Hospital, Cleveland, 3/1-7/31/38; *Ass't. Res.*, Thorndike Memorial Laboratory, Boston, 8/15/38—
- Glenn Emory Stayer, *Pittsburgh, Columbia*; M.D., Duke (12/18/34); *Int.*, rotating, Touro Infirmary, New Orleans, 12/19/34-6/30/35; *Int.*, *Ass't. Res. and Res. in Otolaryn.*, Duke Hospital, 7/1/35-6/30/38; *Ophthalmologist for State Blind Commission*, Raleigh, N. C., 7/1-9/30/38; *present address (in practice)*, Bluefield, West Va.
- Joseph Blackburn Stevens, *Davidson*; M.D., Duke (12/20/35); *Int. in Path. and Int. and Ass't. Res. in Med.*, Duke Hospital, 1/1/36—
- Ralph Richards Stevenson, *Utah*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. in Surg.*, Strong Memorial Hospital, Rochester, N. Y., 7/1/32-6/30/33; *Ass't. Res. in Path.*, Baltimore City Hospitals, 9/1/33-2/4/34; *Contract Surgeon*, Walter Reed Hospital, Washington, D. C., 1/29-8/22/34; *Res. in Path.*, Baltimore City Hospitals, 9/1/34-6/30/35; *Ass't. in Surg.*, Walter Reed Hospital, 7/1/35-6/30/36; *present address (in practice)*, 3131 Sixteenth St., N. W., Washington, D. C.
- Charles Paul Stevick, *Duke*; M.D., *ibid.* (9/5/36); *Int. in Ped.*, Johns Hopkins Hospital, 9/6-12/31/36, and Duke Hospital, 1/1-6/30/37; *Int. and Ass't. Res. in Ped.*, Children's Hospital, Cleveland, 7/1/37—
- Robert Boyd Stith, Jr., *Duke*; M.D., *ibid.* (6/8/35); *Int. in Med.*, Duke Hospital, 7/1/35-6/30/36; and Cornell Medical Center, New York City, 7/1/36-6/30/37; *present address (in practice)*, Florence, S. C.
- Benjamin Anderson Strickland, Jr., *Mars Hill, Wake Forest*; M.D., Duke (12/19/33); *Int.*, Woman's Hospital, Baltimore, 12/20/33-8/31/34; *Ass't. Res.*, U. S. Marine Hospital, Baltimore, 9/1/34-6/30/35; *Ass't. Surg.*, Headquarters, Third Corps Area, U. S. Army, Baltimore, 7/1/35-6/30/36; *1st. Lieut., and Capt.*, Med. Corps, U. S. Army, Edgewood Arsenal, Md.
- Hugh Franklin Swingle, Jr., *Virginia, Tennessee, State Teachers*; M.D., Duke (11/30/35); *Int. in Med.*, Duke Hospital, 12/1/35-9/30/36; *Fellow in Surg.*, Mayo Clinic, Rochester, Minn., 10/1/36—
- Victor Leo Szanton, *Alabama*; M.D., Duke (6/13/36); *Int.*, rotating, Watts Hospital, Durham, N. C., 7/1/36-6/30/37; *Int. in Ped.*, Jewish Hospital, Brooklyn, N. Y., 7/1/37-6/30/38; *Ass't. Res. and Res. in Ped.*, Mt. Sinai Hospital, New York City, 7/1/38—
- Abraham Jack Tannenbaum, *Ohio State, Duke*; M.D., latter (6/8/35); *Int.*, rotating, St. Leo's Hospital, Greensboro, N. C., 7/1/35-6/30/36, and Galinger Municipal Hospital, Washington, D. C., 7/1/36-6/30/37; *present address (in practice)*, 614 W. Market St., Greensboro, N. C.
- Waller Littlepage Taylor, Jr., *Duke*; M.D., *ibid.* (9/2/33); *Int.*, rotating, Hospital of St. Vincent de Paul, Norfolk, Va., 9/3/33-6/30/34; *Ass't. Res. in Med.*, Memorial Hospital, Norfolk, Va., 7/1/34-6/30/35; *present address (in practice)*, Virginia Beach, Va.
- Robert Hendon Thomason, *Sam Houston Teachers, Agricultural & Mechanical College of Texas, Duke*; M.D., *ibid.* (8/31/35); *Int. in Ped.*, Duke Hospital, 9/1/35-6/30/36; *Ass't. Res. in Med.*, Baltimore City Hospitals, 7/1/36-6/30/38; *present address (in practice)*, Huntsville, Texas.
- Arthur Fred Turner, Jr., *Southcrn, Duke*; M.D., *ibid.* (6/13/36); *Int.*, rotating, Christ Hospital, Cincinnati, O., 7/1/36-6/30/37; *Int. in Surg.*, Medical College of Virginia, Hospital Division, Richmond, 7/1/37-6/30/38; *Jr. Res. in Urol.*, Henry Ford Hospital, Detroit, 9/1/38—

\* See footnote, p. 63.

- George Irvin Uhde, *Duke*; M.D., *ibid.* (6/13/36); *Int., rotating, and Res. in Med.*, Reading City Hospital, Reading, Pa., 7/1/36-6/30/38; *Res.*, Baltimore Eye, Ear and Throat Hospital, 7/1/38—
- Thaddeus Gilbert Upchurch, *North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int. and Ass't. Res., rotating, and Res. in Obs. and Gyn.*, City of Atlanta Grady Hospital, Atlanta, Ga., 7/1/32-6/30/35; *present address (in practice)*, Smithfield, N. C.
- Myron Cherrington Waddell, *Nebraska, Wesleyan, St. Louis*; med. stud., *ibid.*, 1929-31; M.D., Duke (12/19/33); *Int. in Path.*, Presbyterian Hospital, Denver, Colo., 1/1/34-8/31/35; *present address (in practice)*, 637 Republic Bldg., Denver, Colo.
- Needham Edgar Ward, Jr., *Wake Forest, Texas, North Carolina*; med. stud., *ibid.*, 1928-30; M.D., Duke (3/19/32); *Int., rotating*, James Walker Hospital, Wilmington, N. C., 4/1-6/30/32, and McKeesport Hospital, McKeesport, Pa., 7/1-7/31/32; *Int. and Res., rotating*, Watts Hospital, Durham, N. C., 8/1/32-6/30/34; *present address (in practice)*, Greenville, N. C., and on staff of Pittsboro General Hospital.
- William Julian Weatherford, *Alabama*; med. stud., *ibid.*, 1929-31; M.D., Duke (3/22/33); *Int., rotating*, Watts Hospital, Durham, N. C., 7/1/33-6/30/34; and City Hospital, Mobile, Ala., 7/1/34-4/1/35; *present address (in practice)*, Pascagoula, Miss.
- Thomas Wilson Wesson, *Mississippi*; M.D., Duke (6/8/35); *Int. in Ped.*, Strong Memorial Hospital, 7/1/35-6/30/36, and *rotating*, Rochester General Hospital, Rochester, N. Y., 9/1/36-8/31/37; *Int. and Ass't. Res. in Otolaryn.*, Barnes Hospital, St. Louis, Mo., 9/1/37—
- Millard Brown White, *Florida, Duke*; M.D., *latter* (6/8/35); *Int., rotating*, Western Pennsylvania Hospital, Pittsburgh, Pa., 7/1-12/31/37; *present address (in practice)*, Sarasota, Fla., and *Assoc. in Med.*, Halton Hospital, Sarasota, Fla.
- Walter Raphael Wiley, *Wake Forest*; med. stud., *ibid.*, 1928-30; M.D., Duke (6/11/32); *Int., rotating*, Watts Hospital, Durham, N. C., 7/1/32-6/30/33; *House Physician*, Goldsboro City Hospital, Goldsboro, N. C., 9/1-12/31/33; *Int. in Med. and Ass't. Phys.*, Wassaic State School, Wassaic, N. Y., 1/1/34-2/16/36; *present address (in practice)*, Chesterfield, S. C.
- William Edgar Wilkinson, *Davidson*; med. stud., North Carolina, 1928-30; M.D., Duke (6/11/32); *Int. in Surg., and Ass't. Res. in Path. and in Surg.*, Duke Hospital, 7/1/32-6/30/35; CCC, Army 4, Franklinton, N. C., 8/1/35-12/31/36; CCC, Fort Bragg, N. C., 1/1/37-6/30/37; *1st Lieut. and Capt.*, Army Medical Center, Washington, D. C., and *Ass't. Chief, Infectious Disease Section*, Walter Reed Hospital, Washington, D. C., 9/1/37—
- Jarrett Earl Williams, *Emory & Henry*; M.D., Duke (9/2/23); *Int. and Ass't. Res. in Path.*, Duke Hospital, 7/1/33-6/30/35; *Adjunct Prof. in Path.*, Univ. of Texas, School of Medicine, Galveston, Texas, 9/1/35-8/31/36; *Assoc. Med. Director*, Tenn. Eastman Corp., Kingsport, Tenn., 4/1/36-8/15/37; *Assoc. Prof. of Path.*, Univ. of Texas, School of Medicine, Galveston, Texas, 9/1/37—
- Candler Arthur Willis, *Duke*; M.D., *ibid.* (6/13/36); *Int., rotating*, Watts Hospital, Durham, N. C., 7/1/36-6/30/37; *Int.*, Hugh Chatham Memorial Hospital, Elkin, N. C., 7/1/37-6/30/38; *present address (in practice)*, Candler, N. C.
- James Raymond Wilson, *Alabama, Harvard*; M.D., Duke (6/9/34); *Int., rotating*, Albany Hospital, Albany, N. Y., 7/1/34-6/30/35, and St. Elizabeth's Hospital, Utica, N. Y., 7/1/35-6/30/36; *present address (in practice)*, Utica, N. Y.
- Charles Terry Wood, *Furman, Michigan*; M.D., Duke (6/9/34); *Int. and Res., rotating*, Hospital of St. Vincent de Paul, Norfolk, Va., 7/1/34-1/11/36; *Res., rotating*, Taylor Hospital, Ridley Park, Pa., 1/13/36-6/30/37; *present address (in practice)*, Chester, Pa.

\* See footnote, p. 63.

## FORMER RESIDENT STAFF

## Medicine

- Adams, Raymond D., M.D., *Duke*, 1936; Ass't. Res., 1937-38. Mass. General Hospital, Boston, Mass.
- Baker, J. Samuel, M.D., *Duke*, 1934; Int., 1934-35. Los Angeles Co. Hospital, Los Angeles, Calif.
- Bellows, Rowland T., M.D., *Cornell*, 1930; Int., 1930-31. Strong Memorial Hospital, Rochester, N. Y.
- Borland, James L., M.D., *Harvard*, 1932; Int., 1932-33. 1022 Park St., Jacksonville, Fla.
- Braxton, Herman H., M.D., *Johns Hopkins*, 1932; Int., 1932-33. Chase City, Va.
- Calder, Royall M., M.D., *Johns Hopkins*, 1929; Ass't. Res. and Res., 1930-33. 414 Navarro St., San Antonio, Texas.
- Caldwell, Eliza, M.D., *Vanderbilt*, 1932; Int., July-Nov., 1937; Ass't. Res., 1937-38. Bellevue Hospital, New York City, N. Y.
- Callaway, Jaspar L., M.D., *Duke*, 1933; Int. and Ass't. Res., 1933-35. Duke Hospital, Durham, N. C.
- Cekada, Emil B., M.D., *Johns Hopkins*, 1929; Ass't. Res., 1930-32. 602 Chapel Hill St., Durham, N. C.
- Cooper, A. Derwin, M.D., *George Washington*, 1931; Int., 1933-34. 111 Corcoran St., Durham, N. C.
- Craven, Erle B., Jr., M.D., *Johns Hopkins*, 1929; Int., Ass't. Res. and Res., 1931-34. Lexington, N. C.
- Denholm, John S., M.D., *Duke*, 1935; Int., 1935-36. N. C. Sanatorium, Sanatorium, N. C.
- Dinin, Benjamin G., M.D., *Duke*, 1933; Int., 1933-34. Kingston Ave. Hospital, Brooklyn, N. Y.
- Doak, Alfred D., M.D., *Harvard*, 1933; Int. and Ass't. Res., 1933-35. Shelbyville, Ky.
- Freeman, Gustave, M.D., *Duke*, 1933; Int., 1933-34. Univ. of Chicago Clinics, Chicago, Ill.
- Graves, Grant O., M.D., *Ohio State*, 1932; Int., 1932-33. Hamilton Hall, Ohio State Univ. College of Medicine, Columbus, O.
- Haas, William R., M.D., *Duke*, 1938; Int., June-Oct., 1938. New Haven Hospital, New Haven, Conn.
- Hall, Snowden C., Jr., M.D., *Harvard*, 1930; Ass't. Res., 1932-34. 105 S. Union St., Danville, Va.
- Hudnall, Harry J., M.D., *Virginia*, 1931; Int., 1931-32. Covington, Va.
- Jones, Julia M., M.D., *Duke*, 1935; Int., 1936-37; Ass't. Res., July, 1937-Jan., 1938. William H. Maybury Sanatorium, Northville, Mich.
- Joyner, Austin L., M.D., *Duke*, 1934; Int., 1935-36. Univ. of Alabama, Tuscaloosa, Ala.
- Leach, Charles E., M.D., *Duke*, 1935; Ass't. Res., 1936-37. University Hospitals, Cleveland, O.
- Lepore, Michael J., M.D., *Rochester*, 1934; Int. and Ass't. Res., 1934-37. 919 E. 225th St., New York City, N. Y.
- Lovejoy, John F., M.D., *Duke*, 1932; Int., 1932-33. 1022 Park St., Jacksonville, Fla.
- McMillan, Robert L., M.D., *Duke*, 1933; Ass't. Res. and Res., 1934-37. 402 N. Liberty St., Winston-Salem, N. C.
- Magill, Thomas P., M.D., *Johns Hopkins*, 1930; Int., 1930-31. Rockefeller Institute, New York City, N. Y.
- Magruder, R. Gregory, M.D., *Virginia*, 1933; Int., 1934-35. 308 Market St., Charlottesville, Va.
- Mayer, Walter B., M.D., *Pennsylvania*, 1930; Ass't. Res., 1931-32. 412 N. Church St., Charlotte, N. C.
- Menefee, Elijah E., Jr., M.D., *Duke*, 1936; Int., 1936-37. Bellevue Hospital, New York City, N. Y.



- Miller, Ben N., M.D., *Duke*, 1935; Int. and Ass't. Res., 1935-37. 2209 Wheat St., Columbia, S. C.
- Munroe, Henry S., M.D., *Duke*, 1935; Int., 1935-36. Lahey Clinic, Commonwealth Ave., Boston, Mass.
- Noojin, Roy O., Jr., M.D., *Chicago*, 1937; Int., 1937-38. Huntsville, Ala.
- Ould, Carlton L., M.D., *Duke*, 1937; Int., 1937-38. Rhode Island Hospital, Providence, R. I.
- Payne, Sheldon A., M.D., *Yale*, 1931; Ass't. Res., 1933-34. 34 W. Micheltorena St., Santa Barbara, Calif.
- Peele, Talmage L., M.D., *Duke*, 1934; Int. and Ass't. Res., 1934-36. University of Rochester School of Medicine, Rochester, N. Y.
- Pepper, Dickinson S., M.D., *Pennsylvania*, 1932; Int., 1932-33. 133 S. 36th St., Philadelphia, Pa.
- Persons, Elbert L., M.D., *Harvard*, 1927; Res., 1930-32. Duke Hospital, Durham, N. C.
- Poole, Everett B., M.D., *Vanderbilt*, 1931; Ass't. Res. and Res., 1932-35. 202 Brown St., Greenville, S. C.
- Preu, Paul W., M.D., *Cornell*, 1930; Int., 1931-32. 333 Cedar St., New Haven, Conn.
- Query, Richard Z., M.D., *Duke*, 1934; Ass't. Res. and Res., 1935-38. Medical Arts Bldg., Charlotte, N. C.
- Reese, Frederick M., M.D., *Johns Hopkins*, 1931; Int., 1931-32. 3203 N. Charles St., Baltimore, Md.
- Reque, Paul G., M.D., *Duke*, 1933; Int. and Ass't. Res., 1933-35. 109 College St., New Haven, Conn.
- Robinson, Frank H., M.D., *Duke*, 1935; Int., 1935-36. Rockefeller Institute, New York City, N. Y.
- Rockwell, Fred V., M.D., *Rochester*, 1936; Int., 1936-37. University Hospital, Ann Arbor, Mich.
- Ruegsegger, James M., M.D., *Western Reserve*, 1931; Int. and Ass't. Res., 1931-34; Res., 1935-36. Cincinnati General Hospital, Cincinnati, O.
- Schiro, Harold S., M.D., *Johns Hopkins*, 1933; Ass't. Res., 1935-36. Cincinnati General Hospital, Cincinnati, O.
- Smith, O. Norris, M.D., *Pennsylvania*, 1933; Ass't. Res., 1937-38. 101 N. Elm St., Greensboro, N. C.
- Smith, R. Eloise, M.D., *Yale*, 1930; Int. and Ass't. Res., 1930-32. Clifton Springs, N. Y.
- Stith, Robert B., M.D., *Duke*, 1935; Int., 1935-36. 101 Cheves St., Florence, S. C.
- Stone, Robert E., M.D., *Harvard*, 1934; Ass't. Res., 1936-37. Chapel Hill, N. C.
- Swingle, Hugh F., M.D., *Duke*, 1935; Int., 1935-36. Mayo Clinic, Rochester, Minn.
- Syvertson, Jerome T., M.D., *Harvard*, 1931; Int., 1931-32; Res., Aug., 1932. Univ. of Rochester School of Medicine, Rochester, N. Y.
- Walker, Rowland H., M.D., *Pennsylvania*, 1934; Ass't. Res., 1936-37. Martinsville, Va.

### Neuropsychiatry

- Feder, John G., M.D., *Ohio State*, 1934; Ass't. Res., 1936-37. Greenville, S. C.
- Young, David A., M.D., *Harvard*, 1931; Ass't. Res., 1935-36. McLean Hospital, Belmont, Mass.

### Surgery

- Armstrong, William E., M.D., *Emory*, 1931; Int., 1931-32. 478 Peachtree St., N. E., Atlanta, Ga.
- Baker, Walter W., M.D., *Washington*, 1928; Ass't. Res., 1930-32. 255 S. 17th St., Philadelphia, Pa.
- Bellows, Rowland T., M.D., *Cornell*, 1925; Int., 1931-32. Strong Memorial Hospital, Rochester, N. Y.

- Blady, John V., M.D., *Duke*, 1932; Int., 1932-33. Memorial Hospital for the Treatment of Cancer and Allied Diseases, New York City, N. Y.
- Blocksom, Berget H., Jr., M.D., *Duke*, 1933; Int., 1933-34. 303 N. Main St., Rockford, Ill.
- Bramer, James D., M.D., *Rochester*, 1935; Int., 1937-38. Palmyra, N. Y.
- Buckner, Frank W., M.D., *Duke*, 1936; Int., 1936-37. New Haven Hospital, New Haven, Conn.
- Bugg, Everett I., Jr., M.D., *Johns Hopkins*, 1937; Int., 1937-38. Johns Hopkins Hospital, Baltimore, Md.
- Burns, Robert A., M.D., *Rochester*, 1936; Int., 1936-37. Johns Hopkins Hospital, Baltimore, Md.
- Caffee, Henry H., M.D., *Harvard*, 1931; Int., 1935-36. Louisville City Hospital, Louisville, Ky.
- Cherry, James H., M.D., *Duke*, 1933; Int., 1934-35. Hot Springs, Va.
- Chunn, Charles F., M.D., *Duke*, 1935; Int., 1936-37. Henry Ford Hospital, Detroit, Mich.
- Daniel, Walter E., M.D., *Medical College of Virginia*, 1931; Ass't. Res., 1936-38. Duke Hospital, Durham, N. C.
- Devine, John W., M.D., *Duke*, 1935; Int. and Ass't. Res., 1935-38. 610 Church St., Lynchburg, Va.
- Feyder, Sydney, M.D., *Rochester*, 1936; Int., 1937-38. New Haven Hospital, New Haven, Conn.
- Finkelstein, Harold, M.D., *Johns Hopkins*, 1928; Ass't. Res. and Res., 1931-34. Duke Hospital, Durham, N. C.
- Fletcher, Richard V., M.D., *Johns Hopkins*, 1933; Int. and Ass't. Res., 1933-34. Duke Hospital, Durham, N. C.
- Gardner, Clarence E., M.D., *Johns Hopkins*, 1928; Res., 1930-32. Duke Hospital, Durham, N. C.
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- Miller, John S., Jr., M.D., *Johns Hopkins*, 1934; Int., 1934-35. Crown Point, N. Y.
- Munroe, H. Stokes, Jr., M.D., *Duke*, 1935; Int. and Ass't. Res., 1936-38. Lahey Clinic, Commonwealth Avenue, Boston, Mass.
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- Sanger, W. Paul, M.D., *Vanderbilt*, 1931; Int., Ass't. Res. and Res., 1931-37. 121 W. 7th St., Charlotte, N. C.
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- Hargett, Edgar R., M.D., *Cincinnati*, 1931; Int., July-Oct., 1936. 6 W. Main St., Springfield, O.
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- Matthews, E. Eugene, Jr., M.D., *Georgia*, 1930; Ass't. Res., 1931-32. 752 Broad St., Atlanta, Ga.
- Stayer, Glenn E., M.D., *Duke*, 1934; Int., 1935-36; Ass't. Res., 1936-37; Res., 1937-38. 525 Bland St., Bluefield, West Va.

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- Jacobs, Julian E., M.D., *Nebraska*, 1935; Ass't. Res., 1936-37; Res., 1937-38. Childrens Hospital, Los Angeles, Calif.
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- Derieux, George H., Jr., M.D., *Virginia*, 1932; Int., 1933-34; Ass't. Res. and Res., 1934-37. Santa Barbara, Calif.
- Donnelly, Joseph P., M.D., *Yale*, 1932; Int., 1932-33. 788 Kearney Ave., Kearney, N. Y.
- Finch, Adam T., Jr., M. D., *Virginia*, 1931; Ass't. Res., 1932-33. Chase City, Va.
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- Hill, Frances F. (Mrs. Frances Hill Fox), M.D., *Pennsylvania*, 1935; Int. 1936-37. Boston, Mass.
- Jones, John Walter, M.D., *Washington*, 1933; Ass't. Res., 1937-38. Hallsville, Mo.
- Lapsley, A. Fraser, M.D., *Virginia*, 1933; Int., July-Sept., 1935. Badin, N. C.
- Mauzy, Charles H., M.D., *Virginia*, 1933; Int., 1934-35. Winston-Salem, N. C.
- Payne, Sheldon A., M.D., *Yale*, 1931; Int. and Ass't. Res., 1934-36. 34 W. Micheltorena St., Santa Barbara, Calif.
- Pearse, Richard L., M.D., *Harvard*, 1931; Ass't. Res. and Res., 1935-38. 602 Chapel Hill St., Durham, N. C.
- Peter, Beverly K., M.D., *Virginia*, 1930; Int., 1931-32. Beckley, West Va.
- Perdue, John R., M.D., *Virginia*, 1932; Int., 1933-34. 25 S. E. 2nd Ave., Miami, Fla.
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- Arena, Jay M., M.D., *Duke*, 1932; Ass't. Res. and Res., 1933-35. Duke Hospital, Durham, N. C.
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- Beall, Lawrence L., M.D., *Medical College of Virginia*, 1931; Ass't. Res., 1932-33. Cleveland, Miss.
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- Lehman, Jacob S., M.D., *Hahnemann*, 1931; Ass't. Res. and Res., 1933-35. 250 S. 18th St., Lansdowne, Philadelphia, Pa.
- Parrish, Madison E., M.D., *South Carolina*, 1932; Ass't. Res., 1934-36. 16 W. Calhoun St., Sumter, S. C.
- Reuter, Ernest G., M.D., *Oregon*, 1933; Ass't. Res., 1937-38. Massachusetts General Hospital, Boston, Mass.
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- Anderson, William A., M.D., *Toronto*, 1934; Ass't. Res., 1936-37. Univ. of Tennessee, Memphis, Tenn.
- Brian, Earl W., M.D., *Duke*, 1934; Ass't. Res., 1935-36. Raleigh, N. C.
- Cooper, A. Derwin, M.D., *George Washington*, 1931; Int., 1932-33. 11 Corcoran St., Durham, N. C.
- Craven, Erle B., M.D., *Johns Hopkins*, 1929; Res., 1930-31. Lexington, N. C.
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- Dill, Leslie Van D., M.D., *Duke*, 1936; Int., 1937-38. New York City Lying-in Hospital, Cornell Medical Center, New York City, N. Y.
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- Williams, Jarrett E., M.D., *Duke*, 1933; Int. and Ass't. Res., 1933-35. Univ. of Texas School of Medicine, Galveston, Texas.
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- Frazer, William P., M.D., *Duke*, 1933; Int., 1933-34. Hamilton, Va.
- Kress, Jacob H., M.D., *Medical College of Virginia*, 1936; Ass't. Res., 1937-38. Thomasville, N. C.
- Saxe, Louis J., M.D., *Duke*, 1934; Int., 1934-35. 15 E. Monroe St., Phoenix, Ariz.
- Tannenbaum, Solomon, M.D., *Georgia*, 1935; Int., 1935-36. 753 Broad St., Augusta, Ga.

### Private Diagnostic Clinic

- Bruyere, Paul T., M.D., *Chicago*, 1935; Fellow, 1935-36. Kent, Conn.
- Cekada, Emil B., M.D., *Johns Hopkins*, 1929; Fellow, 1932-33. 602 Chapel Hill St., Durham, N. C.
- Daniel, Walter E., M.D., *Medical College of Virginia*, 1931; Fellow, 1932-33. Duke Hospital, Durham, N. C.
- Doak, Alfred D., M.D., *Harvard*, 1933; Res., 1935-36. Shelbyville, Ky.
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- Walker, Rowland H., Jr., M.D., *Pennsylvania*, 1934; Res., 1935-36. Martinsville, Va.

### Dentistry

- Lipton, Michael M., D.D.S., *Iowa*, 1936; Int., 1936-37. 1148 Ward Ave., Bronx, N. Y.
- Ross, Norman F., D.D.S., *Temple*, 1937; Int., 1937-38. Durham, N. C.

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VOLUME 11

March, 1939

NUMBER 3

# BULLETIN OF DUKE UNIVERSITY

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REPORT OF THE PRESIDENT  
AND REPORTS OF OTHER OFFICERS

1937-1938



PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



BULLETIN  
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DUKE UNIVERSITY

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VOL. 11

MARCH, 1939

NO. 3

PUBLISHED BY DUKE UNIVERSITY  
IN JANUARY, FEBRUARY, MARCH, APRIL, MAY, AND JUNE  
ENTERED AS SECOND CLASS MATTER MARCH 25, 1929, AT THE POST OFFICE  
AT DURHAM, N. C., UNDER ACT OF AUGUST 24, 1912



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REPORT OF THE PRESIDENT  
OF DUKE UNIVERSITY



## REPORT OF THE PRESIDENT OF DUKE UNIVERSITY

### *To the Trustees:*

As President of the University, I herewith submit my report for the academic year 1937-38, along with reports of other officers of the University. I commend these reports, constituting as they do an annual accounting of our stewardship, to the attention of all the Trustees, but I especially commend the several reports to the appropriate committees of the Board. The reports also constitute an accounting of our stewardship to the public. For that reason, I am as usual putting into the record here some things with which the Trustees are already familiar. The reports will speak for themselves, and my comments will be in the nature of emphasis on ideas that seem to me to be important at the moment.

There is running through these reports clear evidence to show that everywhere efforts are being made to improve the quality of education. We have in this respect hit our stride and are now fully launched on this kind of program. It might have been expected that we would follow a different course. We choose this course because (1) it seems necessary for us, (2) it may be our way to serve the best interests of our students and constituency, and (3) we hope it may have its influence in helping to break up the American obsession of bigness and replace it with the notion that size has nothing whatever to do with greatness. The setting up of the ideal of quality as over against quantity in every stage of education would, I am more and more convinced, go a long way toward bringing about the kind of educational reform that America most needs.

Our efforts to improve the quality of education are being made through selective processes of admission to secure better human material, and improvement in teaching and research. The University from the beginning has been committed to the principle of selective admission and is now definitely committed also to the principle of limited enrollment. We will admit into the several divisions of the University only the number of students that the housing and teaching facilities at any given time will justify us in receiving. With some adjustments it seems possible that we might within some two or three years be able to accept two thousand men in Trinity College and the College of Engineering, and one thousand undergraduates in the Woman's College. The five graduate and professional schools might, not now but in the course of a few years, be equipped to take an average of three hundred students each. Be-

yond this ultimate total of forty-five hundred students the University has no plans, and no thought of expansion; and if expansion should eventually come it would require fundamental enlargements of the institution, both the plant and faculties. We are determined above all else to do well what we undertake to do.

The adoption of the principle of limited enrollment, as things stand today, brings about the necessity of deciding on just the students that are to be accepted in any year. We have been experimenting with this for a good many years and still have considerable doubt as to the best ways to find students that are apt to do well in the University and afterwards in life. For my part, I am convinced that it is not wise to depend solely on academic records. That of course should be considered, but other tests should be used. We are not trying to build an institution made up solely of scholars and scientists. Universities should send out also leaders in many walks of life in addition to science and scholarship. We definitely seek to find and to train the best minds, and stand ready to help them financially when they need it and deserve it, so far as University resources make that possible; and we are looking for gifted people of many types. It is not so difficult to determine fitness of applicants to graduate and professional schools, but in the colleges this problem is much more complicated and difficult. It is hard to pick the winner among colts that have not yet run a race.

Selection of applicants, especially to Freshman classes, will require much experience and great wisdom. But we are working at this problem sincerely and will continue to work at it. The principle of selective admission will be applied in all divisions of the University, and the necessity for limited enrollment now exists in the colleges and in some of the graduate and professional schools. We will continue steadily to work at this as intelligently and sincerely as possible but will not, I hope, have too much to say about it. We should be sorry if the time should ever come when a Freshman, for example, would feel that he is better than others because he had been admitted to the Freshman class of Duke University. To use another familiar and homely figure, wind is a bad thing to feed colts on. We want this always to be an institution not academically thin and pale-minded but robust and ready, even eager, to do its full share in the great tasks of human society.

To be sure we want it to be educationally robust and pioneering. This robust kind of education will require not only good students and good teachers but also the presence of productive scholars and scientists. For these the University must provide library and laboratory facilities and a teaching load that would leave opportunity

for research and writing. The reports of the Director of Libraries and the Chairman of the Council on Research will show this year, as in other years, the efforts that Duke University is making to provide adequate facilities for its scholars. We are doing this job the best we can do it with the resources we have, and we are seeking constantly and diligently for the resources that are needed to do a better job.

As reported to the Trustees at the February meeting, the one division of the University in which probably more has been accomplished in the year under review than in any preceding year is the Division of Engineering. The landscaping of grounds, reworking of buildings, and rearrangement of equipment, have been about completed so that now one building (Bivens) is used exclusively for civil engineering, one (Branson) for mechanical engineering, and one (Asbury) for electrical engineering and administration offices. Of far greater significance is the effect that the improvements in the plant and the setting up of the departments of engineering into a Division of Engineering have had on the morale of the students, faculty, and alumni who are now active in their profession. The Division of Engineering, organized as a college within the University like Trinity College and the Woman's College, is a unit within itself, and has all the advantages of an independent small college and the advantages that come from connection with a university. The Division of Engineering is receiving national recognition in its field, as is the case with every other division of the University.

It will be observed that the Dean's report shows the twelfth year of the School of Religion to have been one of marked progress. Among other things more adequate provision was made for training in homiletics, and a new emphasis is to be put upon the importance of preaching. This seems to me to be highly important. American theological schools have done well in the training of ministers, but they have been none too successful in stimulating and producing great preachers. If this School could do something worth while in that direction it would thereby render a service that is needed in our time and that would be as pleasing to us all as any service the University could render. The Dean also reports much improved facilities for graduate study in religion beyond the degree of Bachelor of Divinity. It seems to be a fact, as Dean Russell points out, that for the first time in the history of the South a university has become sufficiently equipped to undertake graduate study and research in the field of religion, and that Duke is in the

way to become a graduate religious center comparable to important centers elsewhere.

The absorbing interest of this year and the next is the Centennial. Duke University, as such only fourteen years old, is built about and includes Trinity College. Trinity College in its beginnings goes back to 1838-39. The Centennial will be observed in the academic year 1938-39. Every effort will be made to give this Centennial as wide interpretation as possible. The general theme will be "One Hundred Years of Southern Education in the Service of the Nation." It began in October, 1938, and will continue through the year, coming to a close with the celebration itself, which will be held at the University April 21, 22, 23, 1939. Running through the year there will be five symposia, a series of Centennial Lectures and Centennial Publications. Continuing through the year the University will be at home to visitors. Exhibits intended to illustrate and demonstrate the work of the University will be set up from time to time, and constant efforts will be made to give visitors the opportunity to see the institution as a living working organization rather than merely a collection of buildings and equipment. Through all these means it is hoped that the public may get a better understanding of the University and what it is undertaking to do. Opportunity will also be given to the alumni and others to make gifts to the causes of the University, especially to endowed scholarship and research funds. Announcement of these gifts will be made in connection with the Centennial Services.

The Graduate Dormitory Center, which was one of the Centennial Fund askings, is already assured. In fact, it is under construction and will be ready for occupancy by alumni at the Centennial Celebration April 21, 22, 23, 1939. It is architecturally similar to the present dormitories but somewhat larger. It will house 574 students and has recreation and social rooms. This dormitory is being built by a construction department of the University similar to the plan used in all former buildings on this campus, that plan having been found to be more economical and practical than to make contracts with private builders. This dormitory group will provide rooms next year, I think, for all students in the graduate and professional schools who will wish to live there. A large apartment house adjoining University property has just been completed, and the management has agreed with University officials to release as needed units for the use of students in the graduate and professional schools. This arrangement will stand until the University Graduate Dormitory is ready for use in the autumn of 1939. Women



graduate students will be provided for in a dormitory on the Woman's College campus.

There are graduate and professional students who need to live on a close personal budget, and University authorities have given a good deal of thought to the problem of providing for such students inexpensive and yet comfortable and convenient living quarters. With this in mind a year ago three frame cabins accommodating twenty-seven students were built in the grove immediately north of the Medical School and made available for medical students at rates which are quite low but which will yield a reasonable return on the moderate investment in the buildings. The undertaking proved satisfactory, and on the basis of this experience the University is now building on land adjacent to the frame cabins a group of five rustic log cabins trimmed with native stone. The log cabins will provide living quarters for thirty-two people, with a recreation hall in the center, and these will be used by law students who need and desire accommodations of this sort. A limited number of such cabins will meet a real need and the experiment will continue to have careful attention. Even with all this there will still be no provision for the housing of married graduate students. This is felt here as in other universities to be a serious need.

In the summer of 1937 the two south sections of Jarvis Hall on the Woman's College campus were completely rebuilt, and in the summer of 1938 the remaining sections were rebuilt. Corridors have been constructed throughout the length of the building, new rooms added so that the building now houses 108 students, a social room and kitchen have been provided on the second floor, new bathrooms installed throughout, and each room has been reconstructed in the most approved modern style. New reception rooms have been built and redecorated. The building is now thoroughly first-rate in every way and has become one of the most popular dormitories on the campus.

One of the houses on the Woman's College campus looking just like the other residential halls has been used as an apartment for faculty members, but it is so constructed that with slight adjustments it can be used equally well as a dormitory for students. Teachers and members of the Staff no longer have difficulty in finding living quarters, and this makes it possible to release the apartment house more and more for the use of graduate students as well as faculty and staff members from the Woman's College who wish to live there. In 1936 one floor of the building was turned over to women students in the Graduate School. The experiment was so satisfactory that the next year sufficient rooms were made available

to take care of all the resident graduate women. Instead of "Apartment House" this building should be given a name like the other dormitories, and I will be prepared at some future time to recommend a name.

The Inn, an old dormitory of distinguished architecture on the Trinity College campus, which is now the seat of the Woman's College, ought as soon as funds are available to be reworked and turned over to the Woman's College, maybe as a residence for honor students and in part for the use of visiting alumnae.

Occasionally I hear a remark to the effect that Duke has spent money in buildings that should have gone to endowment. As a matter of fact Duke has never spent any endowment money for building purposes. The buildings have all been put up from funds given specifically for buildings, or in very rare cases from accumulation of money that has come from one source or another but never from endowment funds. It would seem that the University is underbuilt rather than overbuilt. While I hear many requests for money, I hear more often the need for rooms—class, office, library, laboratory—than I hear for any other one thing. These requests are all well founded, too, unless it be the request for more classrooms. We must first make fuller use of the classrooms we have. Classrooms should be scheduled for use throughout the day including, I think, even from one to two o'clock in the afternoon. This plan when properly carried out will increase the classroom capacity and for the present will give classrooms enough to meet the needs of the University. Scheduling classes from one to two o'clock would have the incidental advantage of distributing the numbers who rush to dining rooms when all classes are closed at the same time.

In 1934 Mrs. Benjamin N. Duke gave funds for the creation of a seven-acre flower garden, and work was begun on the garden in the summer of that year. Mrs. Duke died before her plans could be carried through. A more highly developed garden has been planned and will be completed by her daughter Mary Duke Biddle of the Class of 1907. She gives it to the University in memory of her mother. The Sarah P. Duke Gardens, as they are called, will rank with the distinguished gardens in America, and will constitute a conspicuous addition to the recreational and educational opportunities that the University can offer to the community and to visitors.

Mrs. Biddle has given to the University her father's Durham residence. It has not yet been decided just what permanent use this residence can be best put to. There may be a possibility that it

can be developed into a museum of art or it might be permanently used as a guest house for the University. These and maybe other possibilities will be given careful study.

Students of the Woman's College continue to make gifts and secure gifts for improvements on their campus. The gifts are not always large in themselves, but in the total they make up even for one year a record so impressive that it deserves a place in this report. The Anna Branson Room in the Administration Building has been thoroughly reworked and decorated in Victorian style. It was presented to the University by the Class of 1939, and constitutes the first Centennial gift made by an undergraduate class. The room is kept open at all times to visitors and guests of the University. The west parlor in the same building, completely redecorated, done in the style of Louis XV and with great distinction, was presented May 7, 1938, to the University for the Alumnae by Mrs. Mary Duke Biddle, who has already become one of the University's outstanding benefactors. In the year under review the Social Standards Committee of the Woman's College raised funds for the reworking of the Union Lobby. It was redecorated with a view to providing a homelike atmosphere for this room located as it is at the center of the College. The Social Standards Committee provides a hostess each evening to have supervision of this room. The decoration of these three rooms was under the supervision of Mr. Karl Bock of New York City.

The old gymnasium, renamed the Ark, plays an important part in the social life of the students. Each year the Sandals, a Sophomore honorary organization, raises money to improve this building. A game room was this year added on the north side of the basement. It provides for shuffleboard, ping-pong, pool, and other games. There is a plan already projected to put on the walls of this room pictures of outstanding events in the life of the College, of student leaders and others making noteworthy contributions to student life. This building is under direct supervision of the Sandals, and there is a student in charge each evening. The Ark provides a popular gathering place for the students and their friends.

In April, 1938, the Student Government Association made a contribution towards the appropriate furnishing of the Student Council Room. This room is now decorated in judicial style that makes it imposing and serviceable.

Each year the Town Girls raise money for improvements to their social room. It is used a great deal, and the Town Girls expect to continue to make additions to it.

The students of the musical organizations have again made substantial contributions towards the permanent equipment of their music study and club room.

Each year the Senior Class of the Woman's College and the Senior Class of Trinity College join on Duke Day (December 11) in tree planting exercises. The trees are planted year by year on each side of the two-mile road that connects the two campuses. This memorial drive with these class gifts year after year will symbolize the unity of the two campuses, and these faithful oaks will be living witnesses to the founding and to the gratitude and affection that the graduates in unending succession have for a great lover of trees, the founder of the University.

From the beginning the University has been concerned about the satisfactory housing of members of the Faculties and Staff. Beginning in 1932 a tract of land that would apparently never be needed for University purposes was set aside for a faculty development, and streets, sidewalks, sewage, and water mains were laid. The lots in this tract known as the Pinecrest Road development have been sold at the actual cost of the land and the improvements. The development to date includes forty-four lots. Twenty-eight of these have been sold, and twenty-four residences have already been built. There will be easy opportunity for carrying this development much further as additional lots may be required. In 1936 seven large lots on Anderson Street near the University campus were set apart for faculty building sites. Four residences were built that year and in the succeeding year residences were built on the three remaining lots, and now nine additional lots have been made available for the use of faculty and staff members. In 1937 another tract of land between the campuses and on the Duke University Road leading to Durham, now known as the Silvan Road development, was set aside for faculty residences. This tract contains eight lots, all of which were promptly sold, and two residences have now been completed there. A study is being made of a plot of land containing twenty or twenty-five desirable building sites located near the Woman's College Campus and immediately south of the road connecting the two campuses, but remote enough to make sure that it would never be needed for educational buildings; and consideration is being given to the feasibility of making this land available for homes of families connected with the University. There are about forty members of the Faculties and Staff who are now renting or own homes at a considerable distance from either campus and who have signified their interest in building a home nearer to the University as satisfactory sites may be made available. In addition to this selling of lots as outlined above, the



University has within the past year erected for rental, on lots near the West or University Campus, two houses now occupied by deans whose value to the University is enhanced by bringing them closer to the campus. To faculty and staff members not at this time interested in building homes for themselves the University business offices provide such services as they can in the way of securing desirable apartments or homes that are available for rent.

The University believes it to be important for teachers to have satisfactory living quarters reasonably near the campus, thereby promoting closer relations between students and teachers outside of classrooms. The value that the students receive from such contacts is not being overlooked in the development of the University.

A good many years ago members of the Biology Department began to be actively interested in providing a laboratory for research in marine life, and an actual beginning was made in co-operation with the United States Bureau of Fisheries on Pivers Island at Beaufort, North Carolina, in 1928. Three years ago the University purchased that part of the island that was not already owned by the Federal Government. A laboratory, lecture and recreation hall, two dormitories, dining hall, pier, boathouse, and other structures that will be able to accommodate forty-eight students have been largely completed; and in these buildings in the summer of 1938 for the first time a six-weeks course as a part of the regular summer school will be offered. The site is one of the best on the entire Atlantic seaboard for the purpose of marine laboratories, and these Pivers Island laboratories, Duke and government owned, ought to become highly important for scientific research.

In 1936, a study of mental health in North Carolina was made under a Commission of which Dr. F. M. Hanes of the Duke Hospital was Chairman and Dr. L. J. Thompson of Yale Director. The very considerable expense involved in that study was borne entirely by the Rockefeller Foundation. This study has shown clearly that there is need in this area for a psychiatric clinic at which diagnoses can be made, therapy recommended, and psychiatrists trained; and Duke University plans to establish such clinic within the next two years. The importance of this can hardly be overestimated. It has not only its human side but economic side as well, for many of the sick-minded patients now in state hospitals could be restored and returned to their families and to society. Duke University welcomes the opportunity to do this sort of service for the state and region. As Dean Davison has elsewhere pointed out, the establishment of a clinic for psychiatry and mental hygiene at Duke, with the aid of the Social Service Division, Legal Aid Clinic, the Family Service Asso-

ciation, the Juvenile Court in Durham, and the Psychology Departments of Duke University and of the University of North Carolina, will be useful not only for the good it can do individual patients but for its additional value to psychiatrists, pediatricians, and other members of the medical profession, and to social workers. Through monthly clinics that might be held in centers with medical and social service facilities to carry on the work, and willingness to sponsor such clinics, a great and much needed service can be rendered to the community.

Some three years ago Miss Grizzelle M. Norfleet of Winston-Salem made it possible for the Orthopaedic Division of the Surgical Department of the Duke University School of Medicine to make an investigation concerning children suffering from cerebral palsy or birth paralysis within the State of North Carolina, and to draw up a plan for the care and treatment of these children. A state-wide survey was carried out under the direction of Miss Norfleet, and it showed that there were fifteen hundred or more cases of cerebral palsy in North Carolina. The plan proposed was the establishment of a clinic, not too far from the Duke Hospital, for the treatment of a selected group of these children. The University was able to provide a suitable house, and through a grant from Miss Norfleet the house was equipped and opened for reception of children March 9, 1938. The Clinic has been conducted as a unit of the Orthopaedic Division of the Duke Medical School, with the co-operation of Dr. Winthrop M. Phelps of Baltimore. Miss Norfleet, who has been interested in spastic paralysis for a good many years, acts as supervisor and co-ordinator for the Clinic. The physical director is a trained physiotherapist and a specialist in the treatment of spastic paralysis. The Clinic has a capacity of twelve in-patients and can take care of twelve out-patients. The Clinic has already treated eighteen in-patients, six out-patients, and a great many patients have been examined and classified for possible future admission. Those concerned about this undertaking feel that the Clinic is rendering an invaluable service, not only to the children it has been able to treat, but to the whole problem involved in the care and treatment of spastic paralysis.

There is a beautiful human side to it. Miss Norfleet, who supervises the Spastic Clinic and who made the institution possible, the physical director, the tutor, the housemothers, and the servants, have succeeded in creating an atmosphere that makes the place extremely attractive to the children and interesting to all who visit the Clinic. The children publish an attractive little magazine. It is called *The Wee Chirp*, and contains stories, drawings, and poems by the children.



William Robert Odell, of the Class of 1875 and a member of the Board of Trustees for fifty years, died March 25, 1938. For sixty-seven years, from the day he entered as a student until his death, Mr. Odell continued his interest in Trinity College and Duke University, and his services to the causes of the institution through all stages of its development. His life span covered four great periods in the eventful history of the University. He had many chances to take the wrong road. So far as I can find out he did not fail, or even falter, in any of the crises he like other Trustees was obliged to confront. At the time of his death plans had already been made for a dinner in his honor at Duke University on April 14, the dinner to have been attended by a group of his contemporaries and close associates not only in education but also in the realms of business and church.

William Kenneth Boyd, Professor of American History and Chairman of the Department of History since 1906, died January 19, 1938. He was a graduate of the College. After his graduate studies and a few years of teaching experience here and elsewhere, he came back as the successor to John Spencer Bassett, another Trinity graduate and great American historian. Professor Boyd remained here the rest of his life, distinguished as scholar, writer, leader and inspirer of graduate students and graduate studies. He was also a distinguished collector. His success in collecting historical materials for the Library many years ago attracted the attention of others. It particularly enlisted the interest of William W. Flowers of the Class of 1894, whose large gifts through the years have brought here an outstanding collection of Americana, especially Southern Americana. In fact, Professor Boyd's most significant contribution to the University may turn out to be the Flowers Collection that has been built up under his leadership and is still being built up by his associate and successor.

William Stern, Psychologist and Philosopher, died March 26, 1938, at the age of sixty-seven. Professor Stern had held the chair at Duke since 1934, coming here from the Directorship of the Psychological Institute at Hamburg, Germany. He had made many contributions to philosophy as well as to psychology. As an exponent of personalism he became well known in this country as well as in Europe. His most recent full-length book, *General Psychology*, was published in English as well as in German. Professor Stern was a distinguished scholar and thinker, and in addition he had personal qualities that endeared him to this community in his four years' residence here. He was one of the displaced German scholars that were transferred to the United States. Duke University has been strength-

ened by its opportunity to use some of these distinguished German scholars and scientists, and by the use of such scholars and scientists has not only improved its own Staff but has contributed its part to the cause of learning in the world.

Walter L. Whitted, for fifteen years connected with the Auditing Division of Duke University, a loyal and highly popular member of the University organization, died June 14, 1938.

William H. Glasson, on account of his health, has asked to be relieved of his obligations as Dean of the Graduate School of Arts and Sciences, his resignation to be effective at the close of the year under review. He remains as Professor of Economics and Chairman of that important department. His report gives some of the evidence of the growth of the Graduate School during his administration. A year ago I reported that we would open the University in September with the Graduate School developed into one that will deserve to be considered among the good graduate schools in America. It is a tribute to Dean Glasson and a great satisfaction to me, as I am sure it must be also to him, to have word as this report goes to press that the Duke Graduate School has received high approval by Duke's election to membership in the Association of American Universities.

Calvin Bryce Hoover has been appointed Dean of the Graduate School, his services to begin with the academic year 1938-39. He has engaged in important public service; he is a teacher of proved ability, author of well-known books, and gives every promise of a successful administration.

Frank S. Hickman, Preacher to the University for six years, is now Dean of the Chapel. With the change from the Division of Forestry to the School of Forestry, as explained in my last year's report, C. F. Korstian, since 1930 Director of the Division, has been made Dean of the School of Forestry. Both these officers will carry on their duties much as heretofore but with some additional responsibilities. Forestry is a graduate school and completes the set-up of graduate and professional schools in the University—Arts and Sciences, Theology, Law, Medicine, Forestry.

W. P. FEW, *President*.

## REPORTS OF UNIVERSITY OFFICERS



## TRINITY COLLEGE

*To the President of the University:*

The reports of other members of the Dean's staff afford a sufficiently full picture from a statistical standpoint of the year under review to make unnecessary any other details by me. Instead I feel it not out of place to preface the report with some comments based on my observation and study of college education.

It seems to me there is as great confusion of opinion as to what a college education should do for the student as there is regarding the best method to achieve the end. For many years the public with an inherited historical respect for education did not question the program or the methods of colleges. The college-bred youth of some years ago found no difficulty in securing respectable employment, and many of them quickly attained positions of leadership and dignity. But as a rule college students then came from homes with cultured backgrounds and were more or less preordained to fill at maturity such positions. Of course college education helped these students greatly. But the public came to believe that it was education alone which made honorable and successful careers possible; and so the people demanded college education for all. Truly a democratic ideal. But inevitably this attitude brought along, as our population grew and competition in life became keen, an almost purely utilitarian standard for measuring the value of college education. In the consequent inevitable disappointment naturally there arose in the public mind a growing skepticism as to the value of education; for with the great rush into the colleges of the fit, the less fit, and the entirely unfit, of course not all those with brains and character enough to survive the four-year test, even in the less concentrated program of work, could find places of importance with attractive salaries in our economic, political, and professional life. And thus many of the best college graduates in recent years have found it hard to make a satisfactory beginning in the world.

But I am deeply convinced that the remedy is—certainly for such colleges as ours—not in “utilitarianizing” the curricula, but rather in so shaping and effecting our program of work and life as to create a noble aristocracy of spirit and intellect out of our students, a far different aristocracy from that based merely on birth or wealth or other inheritance. Ours would be the saviors of the Republic and the leaders in its further development and in the promoting of its noblest ideals.

This conception of college education would prohibit the glutting of the curriculum with all sorts of vocational subjects; they belong in trade schools where they serve a good purpose. But sound training in body, spirit, and mind, that a true college education should at least lay the foundation of, will come nearer fitting youth in time to earn and maintain a satisfying and useful place in life than can the “mongrel” program now becoming so common in American institutions of “higher learning.” The satisfaction to come to them would not be smug com-

placency, based on mere contentment with the *status quo*; it would arise both from an insight into the imperfection of man's knowledge and achievement and from a saving faith in the dignity and worth of man himself and his possibilities. As it too often happens, and is tending to become more common, we are permitting in America the real soul of education to be trampled to death by its crude body—mere information and unco-ordinated knowledge of facts.

And as a result of this misconception of education, we have fallen into another deadly error, that of accepting a quantity standard in determining intellectual achievement. How absurd is the practice of requiring for graduation a minimum quantity of work measured in semester hours! As if every hour of credit earned has the same intellectual and spiritual value as every other. It is, to be sure, the easiest and the simplest way out, and the one most readily understood by the student. And the quick-witted naturally take it as an approved way of hastening through. We really assume that becoming educated is merely the completion of so many hours of work. Of course this set-up has been hedged about, but I do not believe we sufficiently take care of the problem. Time, after all, is an immensely important factor in our process; and it must not be disregarded.

Here at Duke we have constantly fought against this misconception of college education and have in the main held to a nobler tradition. I do, though, look with misgiving on the multiplying of offerings in the various departments of instruction. I believe a goodly number of such courses for undergraduates might well be omitted with a resulting concentration on the main body of truth to be learned from the subject. And I am convinced that we should do better by our students if we reduced the number of hours now required for graduation and demand far greater mastery of the program thus reduced.

There has been much criticism of college education, and rightly. But much of the so-called criticism has been made by people who really know nothing of what the college or the university is supposed by its very nature to do for the student. Certainly it ought not to be expected merely to train men for office work in corporations or primarily even for executive positions in such organizations or in the public service. And, therefore, the so-called examinations being given, for instance in Pennsylvania, to high-school and college students are, as I see it, by no means a true test of the worthwhileness of American education.

And the various experiments proposed of late years have not seemed to me to go to the root of the matter, though some of the suggestions undoubtedly may profitably be applied. But there can be no substitute for the influence on youth of a true teacher. And no one can be a real teacher who is not by nature and training—it cannot all come from books by any means—a scholar and a fearless, wise lover of the whole truth. I am forced to believe to my sorrow that the greatest need in American colleges today is real teachers. I wonder if the trend of mind, the drift of things, has not actually made it almost impossible to develop in even reasonably large numbers the type of teacher who made our earlier colleges. The *quid pro quo* attitude nowadays so evident in



most human relationships and making itself felt in the teaching profession, the hours and wages law accepted before Congress passed it, the insistence upon a defined maximum of teaching hours—as if teaching could be limited to hours—the demand for graduate-student assistance in the reading of tests and term papers—all these modern efficiency methods undoubtedly weaken the personal relationship between teacher and student, and actually prevent the teacher from really knowing his pupil.

The best that the human race has imagined, dreamed, felt, experienced, achieved as well as the fatal blunders it has made to its sorrow—all recorded in history, literature, art, science—must come to the student through the prism of teacher personality. How can it come true if this prism is defective or impervious to truth's rays? I believe, Mr. President, the greatest need of American colleges is not new-fangled methods of teaching, revised programs of work, changed ideals or goals, but *real*, inspiring, convincing teachers of personality who are both knowers and doers of the truth they profess to teach.

WILLIAM H. WANNAMAKER, *Dean*.

#### UNDERGRADUATE INSTRUCTION

Probably the most significant development in the field of modern college education is the individualization of instruction for students and the effort made to stimulate the student's whole-hearted and interested participation in his own education. Practically every plan setting forth the progress that is being made in higher institutions of learning has to do with the matter of breaking up mass production and lock-step methods of education.

The Committee on the Reorganization of the Curriculum, in its weekly meetings during the year 1937-38, gave serious study to this problem and expects to make its report on a revised program of study to the Faculty Council during the fall semester of 1938-39.

#### HONORS WORK

For several years, the undergraduate colleges have been experimenting with two types of Honors courses for exceptional students—the departmental and the divisional. During the past year the College Council on Honors adopted a revised program of Honors work. The general rules governing this work are as follows:

1. A student who has sixty-two semester hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

2. The Departmental Honors Program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester hours of work.

3. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester hours, and the maximum shall be the equivalent of thirty-six semester hours.

4. The related work, which constitutes at least two-fifths of the Honors Program, that is, the equivalent of twenty-four semester hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

In accordance with these rules Honors work is now offered in the following departments: Botany, Chemistry, English, French, German, Greek, History, Mathematics, Physics, Psychology, Religion, and Zoology.

#### DISTRIBUTION OF STUDENTS BY DEPARTMENTS

In Table I is given the enrollment of students in the various departments for the year 1937-38.

TABLE I  
DISTRIBUTION OF STUDENTS BY DEPARTMENTS  
YEAR 1937-38

Department	The Two Colleges			
	Without Duplicates		With Duplicates	
	Fall Semester	Spring Semester	Fall Semester	Spring Semester
Botany.....	276	266	295	283
Chemistry.....	564	455	636	534
Economics and Business Administration..	1,002	973	1,834	1,790
Education.....	413	434	495	489
Engineering (Civil).....	46	83	126	128
Engineering (Electrical).....	114	58	258	236
Engineering (Mechanical).....	66	26	205	166
English.....	1,602	1,520	1,951	1,839
Fine Arts.....	215	216	232	248
Forestry.....	41	18	45	26
Geology.....	77	51	154	102
German.....	604	539	616	551
Greek.....	141	136	151	153
History.....	1,069	1,135	1,267	1,385
Latin.....	47	43	74	62
Mathematics.....	636	551	676	589
Music.....	24	19	24	19
Philosophy.....	248	202	264	274
Physical Education (Men).....	1,078	956	1,078	956
Physical Education (Women).....	699	705	805	715
Physics.....	347	321	377	352
Political Science.....	581	582	605	597
Psychology.....	312	184	356	206
Religion.....	747	787	854	850
Romance Languages.....	1,270	1,071	1,344	1,159
French.....	821	712	844	786
Italian.....	15	14	16	14
Spanish.....	434	345	484	359
Sociology.....	190	186	235	192
Zoology.....	453	389	501	434

## DISTRIBUTION OF STUDENTS BY GROUPS

In Table II (A and B) is given the distribution of students by groups leading to the A.B. and B.S. degrees.

TABLE II

## A

DISTRIBUTION BY GROUPS—TRINITY COLLEGE  
YEAR 1937-38

General (Bachelor of Arts).....	503
Business Administration .....	432
Pre-Medical .....	285
Pre-Legal .....	200
Engineering .....	162
Teaching .....	38
General (Bachelor of Science).....	28
Honors .....	21
Religion .....	16
Pre-Forestry .....	11
Special .....	9
Social Service .....	1
<i>Total</i> .....	1,706

TABLE II

## B

DISTRIBUTION BY GROUPS—THE WOMAN'S COLLEGE  
YEAR 1937-38

General (Bachelor of Arts).....	690
Public School Teaching .....	73
Business Administration .....	22
Social Service .....	16
General (Bachelor of Science).....	11
Honors .....	8
Pre-Medical .....	8
Pre-Legal .....	6
Academic-Law Combination .....	2
College Teaching .....	2
Religion .....	1
<i>Total</i> .....	839

## GENERAL HONORS

Students of the Freshman, Sophomore, and Junior classes who earn a credit of thirty semester hours and an average of at least two and one-half quality-points per semester hour are given Honors for the year. Students at graduation who have earned an average of at least two and one-half quality-points per semester hour are recommended for a degree *magna cum laude*. Students at graduation who have earned an average of at least two and three-fourths quality-points per semester hour are recommended for a degree *summa cum laude*.

Table III gives the distribution of students winning General Honors in the two Colleges.

TABLE III

## FRESHMAN HONORS

Trinity College .....	12	The Woman's College.....	8
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## SOPHOMORE HONORS

Trinity College .....	14	The Woman's College.....	9
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## JUNIOR HONORS

Trinity College .....	20	The Woman's College.....	13
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## SENIOR HONORS

<i>Magna Cum Laude</i>		<i>Summa Cum Laude</i>	
Trinity College .....	10	Trinity College .....	1
The Woman's College.....	5	The Woman's College.....	1

## DEPARTMENTAL HONORS

At the graduating exercises of the 1938 Commencement, Honors in Chemistry were awarded to two students; in Economics, to three; in English, to one; in Mathematics, to two; and in Philosophy, to one.

Table IV gives the distribution of students reading for Honors in the various departments.

TABLE IV  
DEPARTMENTAL HONORS STUDENTS  
YEAR 1937-38

<i>Department</i>	<i>Seniors</i>	<i>Juniors</i>	<i>Total</i>
Botany.....	1	..	1
Chemistry.....	2	3	5
Economics.....	3	4	7
Greek.....	..	2	2
Mathematics.....	2	2	4
Philosophy.....	1	..	1
Political Science.....	..	4	4
<i>Total.....</i>	9	15	24

## DIVISIONAL HONORS

In 1937-38, Honors within the Division of Humanities were available to qualified students in one group: English (major subject), fine arts, and philosophy. Five Seniors graduated in this correlated group program, and three Juniors completed the first year's work of this correlated group program.

Honors likewise in the Division of Social Sciences were available in one group: economics (major subject), political science (major subject), and philosophy. Four Juniors completed the first year's work of this correlated group program.

## THE DEAN'S LIST

In Table V is given a comparative statement of the Dean's List for 1936-37 and 1937-38.

TABLE V  
THE DEAN'S LIST  
YEAR 1936-37

Fall 1936 .....	181
Men .....	97
Juniors .....	54
Seniors .....	43
Women .....	84
Juniors .....	33
Seniors .....	51
Spring 1937 .....	269
Men .....	137
Sophomores .....	41
Juniors .....	45
Seniors .....	51
Women .....	132
Sophomores .....	37
Juniors .....	48
Seniors .....	47
<i>Total for Year</i> .....	450

## YEAR 1937-38

Fall 1937 .....	196
Men .....	102
Juniors .....	45
Seniors .....	57
Women .....	94
Juniors .....	43
Seniors .....	51
Spring 1938 .....	307
Men .....	162
Sophomores .....	37
Juniors .....	52
Seniors .....	73
Women .....	145
Sophomores .....	35
Juniors .....	48
Seniors .....	62
<i>Total for Year</i> .....	503

## INSTRUCTION IN 1937-38

I am giving in Table VI (A and B) the list of courses in each department, together with the instructor or instructors in each course, that were given during the year 1937-38. With each course is given also a statement of the number and classification of the students enrolled. The abbreviations used are as follows: Gr., Graduate; Sr., Senior; Jr., Junior; Soph., Sophomore; Fr., Freshman; Adv. Fr., Advanced Freshman; Sp., Special.

## REPORT OF THE PRESIDENT

TABLE VI  
A  
CORRELATION OF COURSES BY DEPARTMENTS  
FALL SEMESTER, 1937-38  
DEPARTMENT OF BOTANY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Addoms, Anderson, Kramer, Oosting, Perry.....	180	14	22	9				225
51	Addoms.....			3	1	1			5
101	Perry.....			1	2	3			6
103	Wolf.....				7	9			16
151	Kramer.....			1	2	4	3	1	11
221	Wolf.....						2		2
225	Kramer, Wolf.....						5		5
311	Blomquist.....						3		3
323	Wolf.....						1		1
341	Kramer.....						2		2
351	Kramer.....						4		4
355	Blomquist.....				1				1
359	Blomquist, Wolf.....						4		4
397	Blomquist, Addoms, Anderson, Kramer, Oosting, Perry, Wolf.....						9		9
Honors	Oosting.....					1			1
<i>Total</i>		180	14	27	22	18	33	1	295

## DEPARTMENT OF CHEMISTRY

1	Miss Brown, Hauser, Hill, Hobbs, Saylor, Vosburgh, Wilson.....	280	13	21	1	1			316
61	Hobbs, Saylor.....	10	10	87	14				121
151	Bigelow, Miss Brown, Hauser.....		1	13	37	5	1		57
153	Miss Brown, Hauser.....			1	5		1		7
173	Vosburgh.....				3	8			11
231	Vosburgh, Saylor.....				1	8	12		21
241	Wilson.....				9	11	2		22
253	Bigelow, Miss Brown, Hauser.....					1	8		9
261	Hobbs, Saylor.....				4	22	5		31
273	Bigelow.....						13		13
275	Bigelow, Hauser, Hill, Hobbs, Saylor, Vosburgh.....					5	12	1	18
351	Bigelow.....						4	1	5
363	Vosburgh, Hill, Hobbs.....						4	1	5
<i>Total</i>		290	24	122	74	61	62	3	636

## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

11	Lemert, Oliver.....	93							93
51	Berry, Delaplane, Hoover, Oliver, Smith, Spengler, Welfing.....	26	143	237	34	10			450
57	Black, deVyver, Eiteman, Keech, Shields, Springer.....		59	136	13	7			215
103	Landon.....		4	18	56	18			96
105	Berry, Keech.....		3	18	40	9			70
115	Lemert.....			2	8	8			18



## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
143	Delaplane, deVyver, Eiteman, Landon, Smith.....		12	63	140	17			232
169	Smith.....		1	8	15	7			31
171	Shields.....			23	49	9			81
173	Black.....				8	12			20
175	Black.....				11	7			18
177	Shields.....				7	24			31
181	Springer.....			15	39	83			137
203	Glasson, Ratchford, Welfing.....			12	29	78	3		122
215	Hoover.....				3	14	9		26
217	Spengler.....			1	8	21	6		36
231	deVyver.....				3	16	2		21
235	Ratchford.....			1	2	1	4		8
237	Springer.....					5	5		10
239	Eiteman.....			1	3	4			8
245	von Beckerath.....				2	3			5
253	deVyver.....				19	32			51
265	von Beckerath.....				6	10			16
267	von Beckerath.....						5		5
311	Eiteman.....						9		9
313	Hoover.....						9		9
318	Hoover.....						12		12
Honors	Welfing.....				4				4
Total .		119	222	535	499	395	64		1,834

## DEPARTMENT OF EDUCATION

1	Easley, Watson.....	109	1						110
8	Barden, Childs, Easley.....	72	13	27				2	114
58	Easley.....		1	16	8	6			31
83	Barden.....		2	10	8	3		1	24
101	Carr.....			4	8	12			24
103	Barden.....		2	5	18	9		1	35
105	Childs.....			3	7	10			20
115	Childs.....					35	1		36
118	Brownell.....				11	7			18
131	Carr.....				1	9			10
142	Carr.....			5	14	7		1	27
212	Carr.....					3	6		9
217	Easley.....						5		5
219	Brownell.....						8		8
294	Carr.....					9	8		17
307	Brownell.....						7		7
Total .		181	19	70	75	110	35	5	495

## DEPARTMENT OF CIVIL ENGINEERING

11	Williams.....		2	1		1			4
15	Hall.....		4	3	1	1			9
17	Williams.....			1	7	1			9
107	Williams.....		1	6	32	4			43

## DEPARTMENT OF CIVIL ENGINEERING (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
113	Hall.....			1	7	1			9
119	Bird.....			1		7			8
123	Hall.....			1		7			8
131	Bird.....			1	7	1			9
133	Bird.....			1		6			7
137	Bird.....			2	7	6			15
143	Bird, Hall.....					5			5
Total			7	18	61	40			126

## DEPARTMENT OF ELECTRICAL ENGINEERING

1	Meier.....	62	2	7	1				72
2	Meier.....		2						2
5	Ranson.....	62	5	6	1	1			75
51	Meier.....		2	8		1			11
151	Ranson.....			1	8				9
153	Ranson.....		1	3	15	1			20
155	Meier.....			1	2	6			9
159	Seeley.....			1	2	5			8
161	Seeley.....			1	8				9
163	Meier.....			1	2	6			9
165	Meier.....			1	2	5			8
257	Meier.....			1	2	5			8
261	Seeley.....			1	2	5	1		9
263	Seeley.....					4			4
265	Seeley, Ranson, Meier.....				1	4			5
Total		124	12	32	46	43	1		258

## DEPARTMENT OF MECHANICAL ENGINEERING

79	Chapman.....		8	16					24
81	Reed.....		12	21	2				35
85	Wilbur, Chapman.....		11	23					34
107	Reed.....		1	2	12				15
108	Chapman.....		1	2	7				10
173	Wilbur.....				2	8			10
184	Chapman.....					1			1
187	Wilbur, Reed.....		1	3	16				20
189	Chapman.....		1	2	8				11
191	Wilbur.....				3	7			10
193	Reed.....				2	7			9
195	Reed.....				2	7			9
197	Wilbur.....				2	6			8
199	Wilbur.....			1	8				9
Total			35	70	64	36			205

## DEPARTMENT OF ENGLISH

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
A	Harwell.....	24							24
1	Anderson, Fitzgerald, Harwell, Irving, Martin, Patton, Miss Poteat, Mrs. Vance, Sanders, Ward, Mrs. White....	707	11					2	720
E1	Sanders.....	32							32
2	Fitzgerald, Sugden.....		33	13	2	1			49
53	Jordan.....		47	42	10	1			100
55	Irving, Patton, Sanders, Sugden, Mrs. Vance, Ward.....		28	115	8	4			155
59	Anderson, Mrs. White.....	1	14	41	29				85
63	Mitchell.....		8	13	1				22
101	Mitchell.....			4	11	4			19
103	Sugden.....			2	1	2			5
105	West.....			3	4	4		1	12
107	Sugden.....		1	2	5	6			14
117	West.....			1	8	11			20
119	West.....		1	4	14	22			41
123	Brown.....			2	17	18		1	38
125	White, Mrs. White.....		3	24	30				57
127	Greene.....		1	6	16	7			30
129	Mitchell, Mrs. Vance.....			7	26	22			55
137	Anderson, Gohdes.....			16	57	33			106
139	West.....			3	7	17			27
143	Greene.....			2	5	8			15
145	Greene.....			2	10	8			20
149	Ward.....				1	2		1	4
151	Herring, Lewis.....		3	42	84	35	1		165
201	Brown.....						7		7
203	Baum.....					1	9		10
213	Brown.....				1	4	2		7
215	Gilbert.....				1	3	4		8
217	Gilbert.....				1	1	6		8
219	Irving.....				3	7	5		15
225	Baum.....					2	2		4
227	Gilbert.....				1	1	4		6
229	Gohdes.....				1	3	8		12
233	Gohdes.....					15	8		23
301	Gilbert.....						7		7
313	White.....						2		2
315	Baum.....						4		4
Honors	Irving, White.....				3	6			9
Research	Gohdes.....						14		14
<i>Total</i>		764	147	323	351	278	83	5	1,951

## DEPARTMENT OF FINE ARTS

1	McDonald.....	39						1	40
51	Miss Hall.....		11	39	20	24			94
52	McDonald.....		3		3	4			10
53	Miss Mayfield.....		2	11	8	2			23

DEPARTMENT OF FINE ARTS (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
105	Miss Hall.....			4	7	7			18
107	Miss Mayfield.....		1	6	5	5			17
109	Miss Mayfield.....			1	3	8			12
111	Miss Mayfield.....			1	4	7			12
Honors	McDonald.....					6			6
<i>Total</i>		39	17	62	50	63		1	232

## DEPARTMENT OF FORESTRY

For. 153	Harrar.....			1	3				4
Bot. 153	Harrar.....					1			1
For. 253	Harrar.....					1	2		3
Bot. 253	Harrar.....					1	1		2
255	Schumacher.....				1	1	1		3
257	Schumacher.....						11		11
261	Coile.....					1	4		5
357	Schumacher.....						1		1
357b	Coile.....						3		3
357a	Korstian.....						3		3
357f	Harrar.....						1		1
Theses	Korstian, Coile, Harrar.....						8		8
<i>Total</i>				1	4	5	35		45

## DEPARTMENT OF GEOLOGY

51	Berry.....		12	33	14	11			70
101	Berry.....			1	1	4			6
151	Berry.....					1			1
<i>Total</i>			12	34	15	16			77

## DEPARTMENT OF GERMAN

1	Krummel, Maxwell, Shears, Wilson, Young.....	149	16	38	1			1	205
3	Krummel, Maxwell, Shears, Wilson, Young.....	29	21	106	20	2			178
51	Vollmer.....	17	3	5	1				26
101	Maxwell.....			2	14	6	5		27
103	Wilson.....				6	7			13
107	Maxwell, Wannamaker.....		3	9	46	8	1		67
111	Wilson.....		1	6	8	7			22
115	Krummel.....		1	6	4	4			15
125	Shears.....		1	8	18	6			33
127	Vollmer.....			4	4	2			10
201	Krummel.....	1			6	2		1	10
207	Vollmer.....			1	2	3			6
301	Vollmer.....						4		4
<i>Total</i>		196	46	185	130	47	10	2	616

## DEPARTMENT OF GREEK

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Truesdale.....	4	1	2			1	1	9
53	Truesdale.....		2	3	1				6
105	Peppler.....	1			7	2			10
107	Truesdale.....					1			1
115	Truesdale.....					2	3		5
121	Peppler.....			7	21	53			81
131	Way.....				4	3			7
141	Way.....			2	7	8	1	1	19
205	Way.....						3		3
243	Way.....				1		3		4
301	Peppler.....						3		3
Theses	Peppler.....						3		3
<i>Total</i>		5	3	14	41	69	17	2	151

## DEPARTMENT OF HISTORY

1	Miss Chaffin, Clyde, Manchester, McCloy, Nelson, Mrs. Quynn.....	269							269
2	Hamilton.....	88							88
51	Miss Baldwin, Mabry.....		13	47	15	7			82
52	Munyan.....		33	39	19	7			98
65	McCloy.....		8	20	15	10			53
91	Lanning, Mabry, Shryock, Sydnor, Woody.....		44	108	34	23			209
101	Mrs. Quynn.....		1	11	12	5			29
113	Woody.....		1	3	9	6			19
119	Shryock.....			3	19	22			44
123	Laprade.....		1	15	60	51			127
127	Lanning.....		4	7	16	15			42
135	Carroll.....		2	6	22	11			41
141	Clyde.....		1	3	9	6			19
209	Sydnor.....				3	15	1		19
211	Manchester.....				1	12	1		14
215	Clyde.....				2	9	11		22
219	Carroll.....				1	5	9		15
221	Nelson.....					1	12		13
223	Mrs. Quynn.....					1	2		3
233	Lanning.....				3	9	3		15
303	Sydnor.....						8		8
305	Laprade.....						6		6
308	Shryock.....						6		6
315	Sydnor.....						6		6
317	Carroll.....						5		5
322	Shryock.....						8		8
327	Laprade.....						6		6
333	Lanning.....						1		1
<i>Total</i>		357	108	262	240	215	85		1,267

## DEPARTMENT OF LATIN

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Rose.....	3		1	1				5
3	Gates.....	1							1
15	Rose.....	2		2	1				5
41	Gates, Rose.....	7		2		1			10
53	Rose.....			5					5
57	Rose.....			1		1			2
105	Rosborough.....				2	3			5
111	Rosborough.....				4	8			12
131	Rogers.....			3	3	3	1		10
203	Gates.....				1		2		3
209	Rosborough.....					2	3		5
281	Rogers.....						3		3
291	Rogers.....						4		4
351	Rosborough.....						4		4
<i>Total</i>		13		14	12	18	17		74

## DEPARTMENT OF MATHEMATICS

1	Miles, Odoms.....	28	1	5	1			1	36
3	Gergen, Dressel, Elliott, George, Greenwood, Hickson, Maria, Patterson, Miles, Rankin.....	316	4	18	4	1			343
4	Greenwood.....		13	8	1				22
9	Dressel, Patterson.....	51	1						52
11	Aldridge.....	14							14
50	Gergen, Greenwood.....	15	5	19	4				43
55	Gergen, Elliott, Patterson.....		9	30	3			1	43
71	Hickson.....		2	14	6	1			23
100	Carlitz.....			4	3	4			11
125	Thomas.....			1	2	6			9
131	Hickson.....			2	15	1	1		19
163	Carlitz, Maria.....					2			2
201	Rankin.....				2	2			4
225	Thomas.....						2		2
231	Hickson.....						3		3
239	Miles.....			1	2	3	6		12
255	Carlitz.....					2	6		8
280	Dressel.....					1	6		7
330	Maria.....						5		5
333	Carlitz.....						4		4
337	Thomas.....						2		2
340	Elliott.....						3		3
Theses	Gergen, Carlitz, Maria, Thomas.....						9		9
<i>Total</i>		424	35	102	43	23	47	2	676

## DEPARTMENT OF MUSIC

63	Broadhead.....		1	9	2	6			18
111	Broadhead.....	2		3		1			6
<i>Total</i>		2	1	12	2	7			24



## DEPARTMENT OF PHILOSOPHY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
98	Morgan.....		9	20	4	2			35
101	Mrs. Gilbert, Leonard, McLarty.....		6	20	38	33			97
103	Leonard.....			1	1	4			6
105	McLarty.....			3	22	15			40
111	Mrs. Gilbert.....				2	4			6
203	Morgan.....				2	9	6		17
213	Mrs. Gilbert.....				1	10	4		15
231	Leonard.....					2	3		5
287	Dubs.....					1	22		23
307	Morgan.....						4		4
309	Stern.....						6		6
Honors	McLarty.....				3	7			10
<i>Total</i>			15	44	73	87	45		264

## DEPARTMENT OF PHYSICAL EDUCATION (MEN)

1	Aycock, Persons, Rogers.....	71	5	25	4	3			108
3	Warren.....	26	4	13	10				53
5	Chambers.....	10		1	1				12
7	Aycock, Fogleman, Persons, Warren.....	22	15	46	8	9			100
11	Gerard.....	10	2	12	2	2			28
13	Persons.....	91	4	16	8	3		1	123
15	Chambers, Gerard, Rogers.....	30	12	36	18	2			98
17	Fogleman.....	140	24	53	15	8			240
19	Aycock.....	2	3	2	5				12
21	Rogers.....	6	10	25	2	2			45
25	Warren.....	11	2	15	2	2			32
27	Aycock.....	10	1	6		2			19
35	Fearing.....	34	10	14	4	2			64
37	Caldwell.....	54	3						57
41	Lewis.....	5							5
55	Chambers.....		2	2	2	2			8
59	Coombs.....	2	10	11	1	5			29
61	Crichton.....		5	4	8	7			24
91	Lewis.....		2	4					6
93	Gerard.....		2	3	4	1			10
192	Gerard.....		1	3	1				5
<i>Total</i>		524	117	291	95	50		1	1,078

## DEPARTMENT OF PHYSICAL EDUCATION (WOMEN)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Nur- ses</i>	<i>Total</i>
Golf.....	Miss Dowling.....	11		15	14	8				48
Hockey.....	Mrs. Bookhout.....	41		22	11	2				76
Light Sports.....	Miss Lewis.....	4	1	4	2	1				12
Riding.....	Miss Grout, Mrs. Bookhout, Miss Lewis, Miss Wyche....	27		11	13	5				56
Soccer.....	Miss Lewis.....	17	4	34	24	7				86
Swimming...	Mrs. Bookhout, Miss Dowling, Miss Lewis, Miss Wyche....	116		38	26			1	40	221

## DEPARTMENT OF PHYSICAL EDUCATION (WOMEN) (Continued)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Nur- ses	Total
Tennis.....	Miss Grout, Mrs. Bookhout, Miss Dowling, Miss Wyche..	71	1	56	45	5	.....	.....	.....	178
Volley Ball ..	Miss Grout, Mrs. Bookhout...	18	8	35	26	4	.....	.....	.....	91
41	Miss Wyche.....	12	8	12	.....	.....	.....	.....	.....	32
181	Miss Lewis.....	.....	.....	1	.....	.....	1	.....	.....	2
185	Miss Grout.....	.....	.....	.....	1	2	.....	.....	.....	3
Total.....	.....	317	22	228	162	34	1	1	40	805

## DEPARTMENT OF PHYSICS

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Gr.	Sp.	Total
1 and 51	Carpenter, Edwards, Hatley.....	101	31	87	24	.....	.....	1	244
57	Mouzon.....	.....	11	20	1	.....	.....	.....	32
59	Nielsen.....	.....	.....	5	9	4	.....	.....	18
61	Carpenter.....	.....	.....	5	1	3	.....	.....	9
65	Edwards.....	.....	.....	3	7	2	.....	.....	12
103	Constant.....	.....	.....	.....	4	3	2	.....	9
203	Mouzon.....	.....	.....	.....	.....	1	4	.....	5
205	Hatley.....	.....	.....	.....	2	.....	3	.....	5
213	Constant.....	.....	.....	.....	1	3	7	.....	11
215	Nielsen, Mouzon.....	.....	.....	.....	1	.....	3	.....	4
217	Nielsen.....	.....	.....	.....	.....	.....	1	.....	1
221	Constant.....	.....	.....	.....	.....	.....	7	.....	7
315	Nordheim.....	.....	.....	.....	.....	.....	4	.....	4
341	Sponer.....	.....	.....	.....	.....	.....	4	.....	4
351	Nordheim.....	.....	.....	.....	.....	.....	5	.....	5
353	Nielsen, Mouzon, Nordheim, Sponer.....	.....	.....	.....	.....	.....	7	.....	7
Total.....	.....	101	42	120	50	16	47	1	377

## DEPARTMENT OF POLITICAL SCIENCE

21	Miss Foster, Gibson.....	96	1	.....	.....	.....	.....	.....	97
61	Cole, Gibson, Linebarger, Rankin, Simpson.....	.....	69	225	108	15	.....	1	418
125	Cole.....	.....	.....	4	8	10	.....	.....	22
207	Wilson.....	.....	.....	.....	2	3	1	.....	6
209	Rankin.....	.....	.....	.....	1	6	3	.....	10
211	Linebarger.....	.....	.....	.....	1	.....	4	.....	5
223	Wilson.....	.....	.....	.....	1	2	7	.....	10
225	Cole.....	.....	.....	.....	3	3	2	.....	8
227	Wilson.....	.....	.....	.....	1	9	4	.....	14
291	Rankin.....	.....	.....	.....	3	5	3	.....	11
Honors	Cole.....	.....	.....	.....	4	.....	.....	.....	4
Total.....	.....	96	70	229	132	53	24	1	605

## DEPARTMENT OF PSYCHOLOGY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
101	McDougall, Lundholm.....	.....	1	34	175	34	.....	.....	244
201	McDougall.....	.....	.....	.....	2	9	15	4	30
205	Stern.....	.....	.....	.....	1	1	3	.....	5
207	Zener.....	.....	.....	.....	.....	1	2	.....	3
211	Zener.....	.....	.....	.....	.....	3	3	.....	6
223	Lundholm.....	.....	.....	.....	2	25	6	1	34
225	Stern.....	.....	.....	.....	2	2	3	.....	7
231	Lundholm, Rhine.....	.....	.....	.....	3	1	.....	.....	4
303	McCulloch, Rhine.....	.....	.....	.....	.....	.....	4	.....	4
305	McDougall.....	.....	.....	.....	.....	.....	9	.....	9
311	Stern.....	.....	.....	.....	.....	.....	6	.....	6
313	Rhine.....	.....	.....	.....	.....	.....	4	.....	4
<i>Total</i>	.....	.....	1	34	184	76	55	5	356

## DEPARTMENT OF RELIGION

1	Myers, Crum, Ormond, Mrs. Spence.....	226	.....	.....	.....	.....	.....	.....	226
51	Myers, Petry, Spence, Mrs. Spence.....	1	38	91	35	7	.....	.....	172
101	Ormond.....	.....	1	6	20	20	.....	.....	47
103	Myers.....	.....	7	5	12	7	.....	.....	31
161	Spence.....	.....	2	7	23	32	.....	.....	64
163	Mrs. Spence.....	.....	1	8	8	3	.....	.....	20
169	Crum.....	.....	1	20	42	19	.....	1	83
181	Cannon.....	.....	.....	.....	28	25	.....	.....	53
201	Stinespring.....	.....	.....	.....	1	.....	.....	.....	1
203	Stinespring.....	.....	.....	.....	1	9	.....	.....	10
213	Russell.....	.....	.....	.....	3	16	.....	.....	19
217	Clark.....	.....	.....	.....	.....	1	.....	.....	1
233	Petry.....	.....	.....	.....	2	2	.....	.....	4
261	Smith.....	.....	.....	.....	1	.....	.....	.....	1
263	Spence.....	.....	.....	.....	3	1	3	.....	7
265	Spence.....	.....	1	4	13	30	.....	4	52
275	Hickman.....	.....	.....	.....	3	6	3	.....	12
307	Stinespring.....	.....	.....	.....	.....	2	.....	.....	2
351	Ormond.....	.....	.....	.....	.....	.....	7	.....	7
353	Ormond.....	.....	.....	.....	.....	.....	29	.....	29
363	Smith.....	.....	.....	.....	.....	.....	7	.....	7
365	Smith.....	.....	.....	.....	.....	.....	5	.....	5
371	Hickman.....	.....	.....	.....	.....	.....	1	.....	1
<i>Total</i>	.....	227	51	141	195	180	55	5	854

## DEPARTMENT OF ROMANCE LANGUAGES

## FRENCH

1	Bridgers, Dow, Walton.....	67	11	11	6	1	1	1	98
3	Webb, Cowper, Dow, Jordan, Quynn, Miss Raymond.....	208	16	53	10	2	.....	.....	289
51	Bridgers, Cowper, Davis, Miss Raymond, Walton, Young.....	11	18	112	31	4	.....	.....	176
53	Bridgers, Dow, Jordan, Quynn.....	21	9	50	21	4	.....	.....	105
55	Mrs. Dow.....	.....	2	11	12	7	.....	.....	32
87	Davis.....	.....	3	3	5	7	.....	.....	18

## FRENCH (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
107	Cowper, Miss Raymond.....	.....	1	3	18	8	.....	.....	30
111	Young.....	.....	.....	12	16	11	.....	.....	39
113	Walton.....	.....	.....	2	6	3	.....	.....	11
127	Mrs. Dow.....	.....	.....	2	3	2	.....	.....	7
215	Jordan.....	.....	.....	.....	3	11	.....	.....	14
217	Webb.....	.....	.....	.....	.....	9	1	.....	10
219	Cowper.....	.....	.....	.....	.....	3	4	.....	7
325	Walton.....	.....	.....	.....	.....	.....	4	.....	4
333	Jordan.....	.....	.....	.....	.....	.....	4	.....	4
<i>Total</i>	.....	307	60	259	131	72	14	1	844

## ITALIAN

181	Webb.....	.....	.....	.....	4	12	.....	.....	16
<i>Total</i>	.....	.....	.....	.....	4	12	.....	.....	16

## SPANISH

1	Avilés, Davis, Hasbrouck, Quynn, Young.	123	25	22	.....	.....	.....	.....	170
3	Avilés, Bridgers, Davis, Hasbrouck, Lundeberg, Quynn.....	72	21	49	21	1	.....	.....	164
65	Avilés, Hasbrouck, Lundeberg.....	7	11	29	43	7	.....	.....	97
101	Hasbrouck.....	.....	.....	1	11	.....	.....	1	13
153	Lundeberg.....	.....	.....	4	3	2	.....	.....	9
155	Avilés.....	1	1	4	7	9	.....	.....	22
265	Lundeberg.....	.....	.....	1	2	2	4	.....	9
<i>Total</i>	.....	203	58	110	87	21	4	1	484

## SUMMARY FOR DEPARTMENT OF ROMANCE LANGUAGES

French...	.....	307	60	259	131	72	14	1	844
Italian...	.....	.....	.....	.....	4	12	.....	.....	16
Spanish...	.....	203	58	110	87	21	4	1	484
<i>Total</i>	.....	510	118	369	222	105	18	2	1,344

## DEPARTMENT OF SOCIOLOGY

91	Jensen.....	.....	3	39	20	9	1	.....	72
101	Ellwood.....	.....	.....	13	26	9	.....	.....	48
109	Thompson.....	.....	.....	.....	3	6	.....	.....	9
111	Jensen.....	.....	.....	1	15	9	.....	.....	25
205	Jensen.....	.....	.....	.....	5	14	8	.....	27
217	Ellwood.....	.....	.....	.....	3	10	4	.....	17
219	Thompson.....	.....	.....	.....	2	8	5	5	20
319	Ellwood.....	.....	.....	.....	.....	.....	9	.....	9

## DEPARTMENT OF SOCIOLOGY (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
330	Ellwood, Jensen.....	.....	.....	.....	.....	.....	4	.....	4
340	Thompson.....	.....	.....	.....	.....	.....	3	.....	3
Thesis	Jensen.....	.....	.....	.....	.....	.....	1	.....	1
<i>Total</i>	.....	.....	3	53	74	65	35	5	235

## DEPARTMENT OF ZOOLOGY

1	Bookhout, Miss Culbreth, Miss Jeffers, Johnson.....	242	11	21	5	1	.....	.....	280
53	Gray, Miss Jeffers, Johnson.....	.....	6	61	27	6	1	.....	101
151	Hall.....	.....	.....	3	16	19	.....	.....	38
161	Pearse.....	.....	.....	2	17	6	1	.....	26
219	Cunningham.....	.....	.....	.....	.....	.....	2	.....	2
229	Cunningham.....	.....	.....	.....	.....	10	2	.....	12
301	Pearse.....	.....	.....	.....	.....	.....	6	.....	6
321	Hall.....	.....	.....	.....	.....	.....	4	.....	4
327	Cunningham.....	.....	.....	.....	.....	.....	1	.....	1
343	Hargitt.....	.....	.....	.....	.....	.....	4	.....	4
351	Pearse, Bookhout, Cunningham, Gray, Hall, Hargitt, Miss Jeffers, Johnson....	.....	.....	.....	.....	.....	13	.....	13
353e	Pearse, Hall, Hargitt.....	.....	.....	.....	.....	.....	3	.....	3
355a	Cunningham.....	.....	.....	.....	.....	.....	2	.....	2
<i>Total</i>	.....	242	17	87	65	42	39	.....	501

TABLE VI  
B  
CORRELATION OF COURSES BY DEPARTMENTS  
SPRING SEMESTER, 1937-38

## DEPARTMENT OF BOTANY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Kramer.....	16		1	1				18
2	Miss Addoms, Anderson, Boomhour, Garren, Kramer, Oosting, Perry.....	140	9	31	17	1			198
52	Blomquist.....			3		1			4
103	Wolf.....			1	9	11			21
104	Anderson.....					3			3
156	Oosting.....				2	3		1	6
For. 224	Wolf.....				2	1	4		7
226	Blomquist, Miss Addoms, Oosting.....					1	2		3
252	Kramer.....						4		4
256	Oosting.....					1	7		8
310	Blomquist.....						3		3
For. 352	Kramer.....						1		1
398	Blomquist, Miss Addoms, Anderson, Kramer, Oosting, Perry, Wolf.....						7		7
<i>Total</i>	.....	156	9	36	31	22	28	1	283

## DEPARTMENT OF CHEMISTRY

2	Gross, Miss Brown, Hauser, Hill, Hobbs, Saylor, Wilson.....	226	8	24	3	1			262
70	Hobbs, Saylor, Vosburgh.....	9		67	12	4			92
142	Wilson.....			1	6	1			8
152	Bigelow, Miss Brown, Hauser.....			4	25	8	1		38
154	Miss Brown, Hauser.....			1	4		1		6
174	Vosburgh.....				3	6			9
232	Hobbs, Saylor, Vosburgh.....					3	11		14
242	Wilson.....				4	11			15
254	Bigelow, Miss Brown.....						8		8
262	Gross, Hobbs, Saylor.....				2	16	8		26
271	Gross, Bigelow, Vosburgh.....					2	9		11
274	Gross.....					1	15		16
276	Gross, Bigelow, Hauser, Hill, Hobbs, Saylor, Vosburgh.....					2	17		19
For. 352	Bigelow.....						5		5
364	Gross, Hill, Hobbs, Vosburgh.....						4	1	5
<i>Total</i>	.....	235	8	97	59	55	79	1	534

## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION

11	Landon, Lemert, Oliver.....	116		2					118
52	Berry, Delaplane, Hoover, Oliver, Smith, Spengler, Welfling.....		20	307	55	17			399
58	Black, deVyver, Eiteman, Keech, Shields.....		1	158	21	7			187
116	Lemert.....		1		12	6			19
118	Lemert.....			1	7	3			11
138	Delaplane, Smith, Springer, Welfling.....		3	4	125	26			172
158	Berry, Keech.....			9	99	6	1		115
168	Landon.....			8	71	28			107



## DEPARTMENT OF ECONOMICS AND BUSINESS ADMINISTRATION (Continued)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
172	Shields.....			3	61	16			80
174	Black.....				2	19			21
176	Black.....				9	9			18
178	Shields.....					29			29
182	Springer.....				14	125			139
184	Black.....					15			15
204	Glason, Ratchford, Welfling.....				6	109	1		116
216	Hoover.....				3	16	8		27
218	Spengler.....				5	44	6		55
232	deVyver.....				1	21	2		24
236	Ratchford.....					6	4		10
238	Springer.....					5	4		9
240	Spengler.....			15	3		5	1	24
256	deVyver.....				11	41	1		53
266	Eiteman.....				3	7			10
312	Eiteman.....						6		6
314	Hoover.....						10		10
318	Hoover.....						12		12
Honors	deVyver.....				4				4
<i>Total</i>		116	25	509	522	557	60	1	1,790

## DEPARTMENT OF EDUCATION

1	Watson.....	24							24
4	Holton, Carr.....	53	3	16	3			1	76
8	Childs, Watson.....	64	11	16					91
54	Holton.....		5	20	29	15			69
57	Easley.....			3	8	3			14
68	Easley.....		5	20	23	12			60
103	Proctor.....		1	16	17	10		1	45
112-122	Carr.....					10			10
116	Childs.....					32	2		34
205	Childs.....					9	1	1	11
208	Easley.....				1	2	7		10
233	Proctor.....					2	2		4
234	Proctor.....					3	5		8
237	Carr.....					2	7		9
247	Brownell.....						5		5
258	Brownell.....					2	3		5
308	Brownell.....						6		6
309	Brownell.....						1		1
Theses	Brownell, Proctor.....						7		7
<i>Total</i>		141	25	91	81	102	46	3	489

## DEPARTMENT OF CIVIL ENGINEERING

8	Williams.....		4	12					16
108	Hall.....				16	1			17
112	Bird.....			1		6			7
114	Hall.....				8	1			9
117	Williams.....		3	4					7
118	Williams.....	2	3	6	8				19

DEPARTMENT OF CIVIL ENGINEERING (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
120	Bird .....			1		7			8
124	Hall .....				1	7			8
132	Bird .....				8	2			10
134	Bird .....			1		6			7
138	Williams .....				8	6			14
144	Bird, Hall .....				1	5			6
<i>Total</i> .....		2	10	25	50	41			128

## DEPARTMENT OF ELECTRICAL ENGINEERING

1	Meier .....	1							1
2	Meier .....	56		7					63
6	Ranson .....	56	3	8		1			68
52	Meier .....		1	7					8
152	Meier .....				8				8
154	Ranson .....				18	2			20
156	Ranson .....					10			10
158	Ranson .....					8			8
162	Seeley .....				8				8
166	Meier .....					8			8
258	Meier, Ranson .....					16			16
262	Seeley .....					8	1		9
264	Seeley .....					3			3
266	Seeley, Ranson .....					6			6
<i>Total</i> .....		113	4	22	34	62	1		236

## DEPARTMENT OF MECHANICAL ENGINEERING

8	Chapman .....		1	14					15
80	Chapman .....		3	17	1	1			22
85	Chapman .....	13							13
138	Wilbur .....					10			10
170	Reed .....				12				12
188	Wilbur, Reed .....				20	1			21
190	Chapman .....				12				12
192	Wilbur .....					11			11
194	Reed .....					9			9
196	Reed .....					9			9
197	Wilbur .....				12				12
198	Chapman .....			1	1	10			12
200	Wilbur .....				8				8
<i>Total</i> .....		13	4	32	66	51			166

## DEPARTMENT OF ENGLISH

1	Fitzgerald, Harwell .....	58		2					60
2	Anderson, Fitzgerald, Harwell, Irving, Martin, Patton, Miss Poteat, Sanders, Sugden, Mrs. Vance, Ward, Mrs. White	676	7	7	2			1	691
53	Jordan .....		2	21	7	1			33

DEPARTMENT OF ENGLISH (*Continued*)

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
54	Jordan.....		3	26	6	1			36
56	Irving, Patton, Sanders, Sugden, Mrs. Vance, Ward.....		8	124	15	2			149
60	Anderson, Mrs. White.....	2	2	66	35				105
64	Mitchell.....	1	3	20					24
102	Mitchell.....		1	11	7				19
104	Sugden.....			2	1	2			5
106	West.....			2	2	5		1	10
108	Sugden.....			2	4	5			11
117	West.....			1	5	10			16
120	West.....			2	16	27			45
124	Brown.....			2	16	22		1	41
126	White, Mrs. White.....			1	23	39			63
128	Greene.....		1	5	18	7			31
130	Mitchell, Mrs. Vance.....			1	30	28			59
138	Gohdes, Hubbell.....			5	63	34			102
140	West.....			1	6	17			24
142	Jordan.....				1	13			14
144	Greene.....				7	18			25
146	Greene.....			1	10	5			16
150	Ward.....				2	2			4
151	Lewis.....			20	10				30
152	Herring, Lewis.....			12	68	30			110
201	Brown.....						5		5
204	Baum.....						9		9
214	Brown.....					4	3		7
215	Gilbert.....					3	6		9
218	Gilbert.....				1	1	6		8
220	Irving.....				2	6	4		12
226	Baum.....					1	4		5
228	Gilbert.....				1		5		6
230	Hubbell.....					4	8		12
234	Gohdes.....				1	13	12		26
314	White.....						2		2
316	Baum.....						4		4
Honors	Irving, White.....				5	6			11
<i>Total</i> .....		737	26	323	369	313	68	3	1,839

## DEPARTMENT OF FINE ARTS

2	Miss Mayfield.....	27							27
51	Miss Hall.....		1	2	5	7			15
52	McDonald.....		2	44	19	27			92
54	Miss Mayfield.....		1	8	9	3			21
92	McDonald.....		2	10	8	8	1		29
106	Miss Hall.....			5	11	16			32
110	Miss Mayfield.....			4	11	12			27
Honors	Miss Hall.....				5				5
<i>Total</i> .....		27	6	73	68	73	1		248

## REPORT OF THE PRESIDENT

## DEPARTMENT OF FORESTRY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
52	Maughan.....			1	4	3			8
258	Harrar.....				1	1	4		6
Bot. 226	Harrar.....						1		1
264	Korstian.....					1	2		3
358	Korstian, Harrar, Maughan, Schumacher.....						6		6
Theses	Korstian, Harrar.....						2		2
<i>Total</i>				1	5	5	15		26

## DEPARTMENT OF GEOLOGY

52	Berry.....		1	23	8	12			44
102	Berry.....				1	5			6
152	Berry.....							1	1
<i>Total</i>			1	23	9	17		1	51

## DEPARTMENT OF GERMAN

2	Krummel, Maxwell, Shears, Wilson, Young.....	136	3	41	3			1	184
4	Krummel, Maxwell, Shears, Wilson, Young.....	26	4	102	20	1			153
52	Vollmer.....	14		6					20
102	Maxwell.....				14	7	1		22
104	Wilson.....				5	6			11
108	Maxwell, Wannamaker.....			7	37	16			60
112	Wilson.....			4	3	7			14
116	Krummel.....			1	12	8			21
126	Shears.....			2	19	11			32
128	Vollmer.....			4	5	2			11
202	Krummel.....	1			6	3			10
208	Vollmer.....				5	4			9
302	Vollmer.....					1	3		4
<i>Total</i>		177	7	167	129	66	4	1	551

## DEPARTMENT OF GREEK

2	Truesdale.....	3		1	1		1	1	7
54	Truesdale.....			3	3	1			7
106	Truesdale.....				7	2			9
108	Truesdale.....					1		1	2
116	Way.....					1	3	1	5
122	Peppler.....				6	74			80
142	Way.....				9	18	1		28
206	Way.....						3		3
244	Way.....				1		3		4
302	Peppler.....						3		3
Honors	Peppler, Way.....				3				3
Theses	Peppler.....						2		2
<i>Total</i>		3		4	30	97	16	3	153

## DEPARTMENT OF HISTORY

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
1	Carroll, Hamilton, Mrs. Quynn.....	199							199
2	Miss Chaffin, Clyde, Manchester, McCloy, Nelson.....	212							212
51	Munyan.....		2	52	18	10			82
52	Miss Baldwin, Mabry.....		2	51	18	9			80
66	McCloy.....		2	25	18	13			58
92	Lanning, Mabry, Shryock, Sydnor, Woody.....		16	154	51	28			249
102	Mrs. Quynn.....			6	20	4			30
114	Lanning.....			5	31	25			61
120	Shryock.....				19	24			43
124	Laprade.....			2	50	65			117
130	Manchester.....		1	1	13	3		1	19
136	Carroll.....				41	29			70
142	Clyde.....				11	6			17
210	Sydnor.....					19	1		20
216	Clyde.....					11	10		21
220	Carroll.....					6	10		16
222	Nelson.....					2	11		13
224	Mrs. Quynn.....					1	2		3
234	Lanning.....					21	3		24
303	Sydnor.....						10		10
305	Laprade.....						5		5
308	Shryock.....						8		8
315	Sydnor.....						7		7
318	Carroll.....						5		5
321	Lanning.....						1	1	2
322	Shryock.....						9		9
327	Laprade.....						5		5
<i>Total</i>		411	23	296	290	276	87	2	1,385

## DEPARTMENT OF LATIN

2	Rose.....	2			1				3
4	Gates.....	1							1
16	Rose.....	2		1					3
42	Gates, Rose.....	7		1		1			9
54	Rose.....			5		1			6
58	Rose.....			1					1
106	Rosborough.....				1	3			4
112	Rosborough.....				2	7			9
132	Rogers.....			1	4	4	1	1	11
204	Gates.....						1		1
210	Rosborough.....					1	3		4
282	Rogers.....						3		3
292	Rogers.....						4		4
352	Rosborough.....						3		3
<i>Total</i>		12		9	8	17	15	1	62

## REPORT OF THE PRESIDENT

## DEPARTMENT OF MATHEMATICS

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
2	Aldridge.....	26	.....	2	1	.....	.....	1	30
3	Greenwood, Seward.....	21	.....	2	3	1	.....	.....	27
4	Gergen, Dressel, Elliott, George, Hickson, Maria, Miles, Odoms, Patterson, Rankin.....	267	2	25	5	1	.....	.....	300
10	Dressel, Patterson.....	46	.....	.....	.....	.....	.....	.....	46
12	Greenwood.....	13	1	.....	.....	.....	.....	.....	14
50	Maria.....	9	.....	3	1	.....	.....	.....	13
55	Sugden, Gergen, Greenwood.....	13	4	13	3	1	.....	1	35
74	Hickson.....	.....	1	5	5	1	.....	.....	12
100	Dressel, Elliott, Patterson.....	.....	1	30	6	1	.....	1	39
131	Thomas.....	.....	.....	1	1	1	.....	.....	3
159	Elliott.....	.....	.....	.....	3	1	.....	.....	4
162	Gergen, Carlitz.....	.....	.....	.....	2	.....	.....	.....	2
164	Maria.....	.....	.....	.....	.....	1	.....	.....	1
204	Rankin.....	.....	.....	.....	5	5	.....	.....	10
231	Thomas.....	.....	.....	.....	.....	.....	1	.....	1
240	Miles.....	.....	.....	.....	2	2	5	.....	9
256	Carlitz.....	.....	.....	.....	.....	.....	5	.....	5
259	Elliott.....	.....	.....	.....	.....	.....	1	.....	1
275	Hickson.....	.....	.....	.....	1	1	2	.....	4
284	Thomas.....	.....	.....	.....	.....	1	8	.....	9
331	Maria.....	.....	.....	.....	.....	.....	4	.....	4
334	Carlitz.....	.....	.....	.....	.....	.....	4	.....	4
380	Gergen.....	.....	.....	.....	.....	.....	5	.....	5
Theses	Gergen, Carlitz, Maria, Miles, Thomas.....	.....	.....	.....	.....	.....	11	.....	11
<i>Total</i>	.....	395	9	81	38	17	46	3	589

## DEPARTMENT OF MUSIC

64	Broadhead.....	.....	1	7	2	4	.....	.....	14
112	Broadhead.....	1	.....	3	.....	1	.....	.....	5
<i>Total</i>	.....	1	1	10	2	5	.....	.....	19

## DEPARTMENT OF PHILOSOPHY

98	Mrs. Gilbert.....	6	1	22	23	4	.....	1	57
101	McLarty.....	.....	.....	9	16	6	.....	.....	31
104	Leonard.....	.....	.....	2	9	7	1	1	20
106	Widgery.....	.....	.....	7	27	18	.....	.....	52
112	Morgan.....	.....	.....	1	4	3	.....	.....	8
204	McLarty.....	.....	.....	.....	3	9	.....	.....	12
208	Morgan.....	.....	.....	.....	.....	1	2	.....	3
210	Widgery.....	.....	.....	.....	.....	3	23	.....	26
214	Mrs. Gilbert.....	.....	.....	.....	1	10	5	.....	16
222	Stern.....	.....	.....	.....	2	2	5	.....	9
226	Morgan.....	.....	.....	.....	2	4	2	.....	8
232	Leonard.....	.....	.....	.....	.....	1	4	.....	5
236	Dubs.....	.....	.....	.....	.....	.....	2	1	3
302	Widgery.....	.....	.....	.....	.....	.....	9	.....	9
310	Leonard.....	.....	.....	.....	.....	.....	5	.....	0
Honors	Mrs. Gilbert, McLarty.....	.....	.....	.....	4	6	.....	.....	15
<i>Total</i>	.....	6	1	41	91	74	58	3	274



## DEPARTMENT OF PHYSICAL EDUCATION (MEN)

Course	Instructor	Fr.	Adv. Fr.	Soph.	Jr.	Sr.	Cr.	Sp.	Total
2	Caldwell.....	31		11	4	1			47
4	Warren.....	31		11	1	2			45
6	Chambers.....	13		1		1			15
8	Fogleman, Gerard, Persons.....	68	3	31	10	14			126
12	Gerard.....	2		4					6
14	Persons.....	56		14	2	1			73
16	Gerard.....	1		25	9	2			37
18	Fogleman.....	73		24	3	5			105
20	Aycock, Gerard.....	7		9	2	2			20
22	Chambers, Gerard, Lewis.....	35		24	4	6			69
26	Aycock.....	15		6	1				22
30	Caldwell.....	16							16
32	Caldwell.....	23							23
36	Fearing.....	25	1	14	2				42
38	Hagler.....	37							37
42	Persons.....	18	2						20
44	Fogleman.....	7							7
46	Lewis.....	20		1					21
56	Chambers.....	4		1	3				8
62	Crichton, Hagler.....	1	4	42	14	6			67
80	Coombs.....		3	14	1	3			21
88	Hagler.....		3	15	1				19
90	Hagler.....			5	2	1			8
92	Fogleman.....			5	3				8
94	Persons.....			17	9	1			27
96	Chambers.....		1	18	4	1			24
98	Aycock.....			4	2	2			8
132	Aycock.....		4	9	1	5			19
171	Gerard.....	1	5	7	2			1	16
Total		484	26	312	80	53		1	956

## DEPARTMENT OF PHYSICAL EDUCATION (WOMEN)

Archery.....	Miss Grou, Mrs. Bookhout, Miss Dowling, Miss Lewis, Miss Wyche.....	39	2	51	47	5			144
Badminton...	Mrs. Bookhout, Miss Dowling.....	14	2	14	18	2			50
Dancing.....	Miss Lewis.....	1	1	10					12
Golf.....	Miss Dowling.....	18	2	19	27	7			73
Recreational Leadership.....	Miss Dowling.....		1	2	1	4			8
Riding.....	Miss Grou, Mrs. Bookhout, Miss Dowling, Miss Lewis, Miss Wyche.....	15		11	22	2			50
Softball.....	Miss Lewis, Miss Wyche.....	7	2	12	15	4			40
Speedball.....	Miss Dowling.....	7	1	2	9	1		1	21
Swimming.....	Mrs. Bookhout, Miss Lewis, Miss Wyche.....	55	2	24	17	4		2	104
Tennis.....	Miss Grou, Mrs. Bookhout, Miss Wyche.....	88	2	34	28	4			156
Track.....	Miss Lewis.....	3		7	2				12
42	Miss Wyche.....	25	1	5					31
102	Miss Grou.....		1	2	7	1		2	13
182	Miss Lewis.....			1					1
Total		272	17	194	193	34		5	715

## REPORT OF THE PRESIDENT

## DEPARTMENT OF PHYSICS

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
2	Carpenter, Edwards, Hatley	90	3	27	11	1			132
52	Carpenter, Hatley			61	23	2			86
58	Mouzon		4	22	2				28
60	Nielsen		1	11	5				17
62	Carpenter			2	7	8			17
66	Edwards			1	2	2			5
104	Nielsen, Constant				7		1		8
204	Mouzon					1	4		5
206	Hatley					2	2		4
214	Constant					1	8	1	10
216	Nielsen, Mouzon				2		4		6
218	Nielsen				1	1	2		4
222	Constant					1	7		8
316	Nordheim						4		4
342	Sponer						3		3
352	Sponer						7		7
354	Nielsen, Constant, Mouzon, Nordheim, Sponer						8		8
<i>Total</i>		90	7	114	66	24	50	1	352

## DEPARTMENT OF POLITICAL SCIENCE

22	Miss Foster, Gibson, Linebarger	136							136
61	Linebarger		2	12	3				17
62	Wilson, Cole, Gibson, Linebarger, Rankin, Simpson		4	206	133	31			374
164	Cole			1	7	2			10
212	Linebarger					2	4		6
224	Wilson				1	3	7		11
226	Cole				1	4	2		7
228	Wilson					10	3		13
292	Rankin				1	16	3		20
325	Cole						3		3
<i>Total</i>		136	6	219	146	68	22		597

## DEPARTMENT OF PSYCHOLOGY

101	Pratt			25	26	12			63
102	Zener			2	6	3			11
104	McCulloch				1	5			6
114	Rhine			3	21	13			37
116	Stern				34	22			56
210	Zener						4		4
216	McCulloch						4		4
222	Stern				2	2	5		9
228	Lundholm				1	2	5		8
232	Lundholm					1			1
304	Lundholm, McCulloch, Rhine					1	2		3
Theses	Rhine						4		4
<i>Total</i>				30	91	61	24		206

## DEPARTMENT OF RELIGION

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total.</i>
2	Myers, Crum, Ormond, Mrs. Spence.....	263						1	264
52	Myers, Petry, Spence, Mrs. Spence.....	2	6	104	57	8			177
102	Ormond.....			1	39	15		1	56
170	Crum.....			9	32	28		1	70
182	Cannon.....				30	26			56
202	Stinespring.....			1					1
204	Stinespring.....					8		2	10
214	Russell.....				2	9			11
215	Myers.....		1	8	14	6			29
218	Clarke.....					1			1
262	Spence.....					13	2		15
268	Spence.....				2	37			39
270	Spence.....				3	77			80
276	Hickman.....				2	4	4		10
286	Dubs.....				3	10	3		16
302	Stinespring.....					1			1
308	Stinespring.....					2			2
362	Smith.....					1			1
364	Smith.....						7		7
366	Smith.....						1		1
Theses	Smith.....						3		3
<i>Total</i>		265	7	122	185	246	20	5	850

DEPARTMENT OF ROMANCE LANGUAGES  
FRENCH

2	Bridgers, Dow, Walton.....	51	4	16	6	1			78
4	Webb, Cowper, Davis, Dow, Jordan, Quynn, Miss Raymond.....	219	4	55	21	3			302
52	Bridgers, Cowper, Davis, Miss Raymond, Walton, Young.....	10	1	100	31	12			154
54	Bridgers, Dow, Jordan, Quynn.....	19		39	24	11			93
56	Mrs. Dow.....		1	14	9	6			30
88	Davis.....		1	5	3	4			13
108	Cowper, Miss Raymond.....			6	14	1			21
112	Young.....			6	14	8			28
114	Walton.....			2	6	2			10
128	Mrs. Dow.....				11	2			13
215	Jordan.....				1	11			12
218	Webb.....				1	18			19
220	Cowper.....					1	4		5
326	Walton.....						4		4
334	Jordan.....						4		4
<i>Total</i>		299	11	243	141	80	12		786

## ITALIAN

182	Webb.....				3	11			14
<i>Total</i>					3	11			14

## SPANISH

<i>Course</i>	<i>Instructor</i>	<i>Fr.</i>	<i>Adv. Fr.</i>	<i>Soph.</i>	<i>Jr.</i>	<i>Sr.</i>	<i>Gr.</i>	<i>Sp.</i>	<i>Total</i>
2	Avilés, Davis, Hasbrouck, Quynn, Young.	73	5	39	3	.....	.....	.....	120
4	Avilés, Bridgers, Hasbrouck, Lundeberg, Quynn.....	36	2	46	18	.....	.....	2	104
66	Hasbrouck, Lundeberg.....	6	1	24	49	10	.....	.....	90
102	Hasbrouck.....	.....	.....	1	8	.....	.....	.....	9
154	Avilés.....	.....	.....	6	4	.....	.....	.....	10
156	Avilés.....	.....	.....	2	8	8	.....	.....	18
266	Lundeberg.....	.....	.....	.....	1	3	4	.....	8
<i>Total</i> .....	.....	115	8	118	91	21	4	2	359

## SUMMARY FOR DEPARTMENT OF ROMANCE LANGUAGES

French.....	299	11	243	141	80	12	.....	786
Italian.....	.....	.....	.....	3	11	.....	.....	14
Spanish.....	115	8	118	91	21	4	2	359
<i>Total</i> .....	414	19	361	235	112	16	2	1,159

## DEPARTMENT OF SOCIOLOGY

92	Jensen.....	.....	1	28	23	12	.....	64
102	Ellwood.....	.....	1	6	11	6	.....	24
114	Thompson.....	.....	.....	.....	12	5	.....	17
206	Jensen.....	.....	.....	.....	8	16	6	30
218	Ellwood.....	.....	.....	.....	4	8	6	18
220	Thompson.....	.....	.....	.....	2	10	5	18
320	Ellwood.....	.....	.....	.....	.....	.....	11	11
330	Ellwood, Jensen, Thompson.....	.....	.....	.....	.....	.....	4	4
340	Thompson.....	.....	.....	.....	.....	.....	5	5
Thesis	Jensen.....	.....	.....	.....	.....	.....	1	1
<i>Total</i>	.....	.....	2	34	60	57	38	192

## DEPARTMENT OF ZOOLOGY

2	Bookhout, Gray, Miss Jeffers, Johnson...	205	1	26	7			239
92	Cunningham, Miss Jeffers, Johnson.....			44	25	8	2	79
108	Hall.....				14	16		30
156	Hargitt.....				3	16	2	21
174	Bookhout.....				8	5		13
220	Pearse, Bookhout, Cunningham, Hall.....					8		8
222	Gray.....				1	1	5	8
324	Hall.....						9	9
352	Pearse, Bookhout, Cunningham, Hall, Hargitt, Miss Jeffers, Johnson.....						13	13
354	Pearse, Cunningham, Hall, Hargitt.....						11	11
356	Hargitt.....						3	3
Total ..		205	1	70	58	54	45	434
Medics...	Pearse .....						88	

W. K. GREENE

Dean of Undergraduate Instruction

ADMISSIONS TO TRINITY COLLEGE  
1937-38

In the selection of students the Committee is constantly aware of the importance of its work in the promotion of scholarship. The varied types and aims of secondary schools in the large area from which our students come obviously make the problem of selection more difficult. It is increasingly evident that an applicant's fitness for college work cannot be tested by a single criterion; all data concerning his ability, preparation, and personal qualifications must be considered with care if admissions are to be intelligently administered. We are, therefore, striving to secure whatever meaningful information is available from different sources before acting on requests for admission.

From approximately 1,600 applications, 521 Freshmen and 54 transfer students were enrolled during the scholastic year. Of the Freshmen admitted, 435 were from high schools and 86 from preparatory schools. As will be noted from Table I, they represented thirty states and two foreign countries.

Placement and ability test scores indicated that in capacity and training the Freshman class ranked well with other classes of recent years, and the record made by our students on the American Council on Education Psychological Examination for College Freshmen showed that they were clearly above the average of more than thirty thousand included in the study. The average of grades made by first-year students was higher than for the preceding year.

TABLE I  
GEOGRAPHICAL DISTRIBUTION—FRESHMEN  
1937-38

<i>State</i>		<i>State</i>	
Alabama .....	1	Minnesota .....	1
Arkansas .....	1	Nebraska .....	1
Canada .....	2	New Jersey .....	52
Colombia, S. A. ....	1	New York .....	83
Connecticut .....	19	North Carolina .....	132
Delaware .....	7	Ohio .....	21
District of Columbia .....	7	Oklahoma .....	1
Florida .....	22	Oregon .....	1
Georgia .....	8	Pennsylvania .....	67
Idaho .....	1	South Carolina .....	10
Illinois .....	19	Tennessee .....	4
Kentucky .....	8	Vermont .....	1
Louisiana .....	2	Virginia .....	10
Maryland .....	8	West Virginia .....	7
Massachusetts .....	18	Wisconsin .....	1
Michigan .....	4		
Mississippi .....	1	<i>Total</i> .....	521

TABLE II  
RELIGIOUS DISTRIBUTION OF FRESHMEN  
1937-38

Baptist .....	54	Methodist .....	116
Catholic .....	41	Moravian .....	2
Christian Scientist .....	6	None .....	45
Church of God .....	1	Presbyterian .....	109
Congregational .....	30	Quaker .....	3
Dutch Reformed .....	6	Reformed .....	1
Episcopal .....	67	Union .....	2
Evangelical .....	2	Unitarian .....	4
Greek Orthodox .....	4	United Brethren .....	3
Hebrew .....	9	United Church of Canada.....	1
Independent Christian .....	2		
Lutheran .....	13	<i>Total</i> .....	521

For the sake of comparison, I give here the geographical and religious distribution of all students in Trinity College.

TABLE III  
GEOGRAPHICAL DISTRIBUTION—UNDERGRADUATE MEN OF TRINITY COLLEGE  
1937-38

<i>State</i>		<i>State</i>	
Alabama .....	9	Minnesota .....	1
Arkansas .....	5	Mississippi .....	6
California .....	1	Missouri .....	1
Canada .....	4	Montana .....	1
Canal Zone .....	1	Nebraska .....	1
Central America .....	1	New Hampshire .....	2
China .....	1	New Jersey .....	194
Connecticut .....	61	New York .....	283
Cuba .....	3	North Carolina .....	403
Delaware .....	22	Ohio .....	54
District of Columbia.....	24	Oklahoma .....	2
England .....	1	Oregon .....	1
Florida .....	51	Pennsylvania .....	206
Georgia .....	32	Philippine Islands .....	1
Idaho .....	1	Puerto Rico .....	1
Illinois .....	39	Rhode Island .....	2
Indiana .....	5	South Carolina .....	28
Japan .....	1	Tennessee .....	29
Kentucky .....	25	Texas .....	3
Korea .....	2	Vermont .....	5
Louisiana .....	3	Virginia .....	54
Maine .....	4	West Virginia .....	25
Maryland .....	44	Wisconsin .....	3
Massachusetts .....	48		
Michigan .....	12	<i>Total</i> .....	1,706

TABLE IV  
RELIGIOUS DISTRIBUTION—UNDERGRADUATE MEN OF TRINITY COLLEGE  
1937-38

Baptist .....	140	Church of God.....	4
Catholic .....	140	Congregational and Christian...	81
Christian Scientist .....	16	Disciples of Christ.....	2
Church of Christ .....	3	Episcopal .....	217



Evangelical .....	4	Reformed .....	27
Greek Orthodox .....	3	Salvation Army .....	1
Hebrew .....	41	Seventh Day Adventist.....	1
Lutheran .....	72	Unionist or Community.....	9
Methodist .....	463	Unitarian .....	9
Moravian .....	4	United Brethren .....	3
None .....	155	United Church of Canada.....	2
Plymouth Brethren .....	1	Universalist .....	1
Presbyterian .....	299		
Quaker .....	8	<i>Total</i> .....	1,706

From the Recorder's Office, which works under the direction of the Dean's offices, I submit interesting tables showing the enrollment by classes, the average of grades and quality-points for all classes, and a comparison of the averages of fraternity and non-fraternity men in Trinity College.

TABLE V  
ENROLLMENT BY CLASSES  
1937-38

Seniors .....	300*
Juniors .....	348
Sophomores .....	413
Freshmen .....	521
Advanced Freshmen .....	176
Specials .....	10
<i>Total</i> .....	1,768

Prior to this year, 1937-38, the study of the distribution of grades and quality-points has been made on the basis of three-semester-hour courses. Due to the fact that the number of one-, two-, four-, and five-hour courses has greatly increased during the past few years, the average is now computed per semester hour.

TABLE VI  
A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE

A  
FRESHMAN CLASS  
FALL SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	168	6.76
B .....	610	24.56
C .....	1,042	41.95
D .....	409	16.46
F .....	227	9.14
Incomplete 9)		
Absent .... 10)	28	1.13
Dropped .. 9)	2,484	100.00
Percentage passing grades .....		89.73
Percentage failing grades .....		9.14
Percentage Incomplete, Absent from Examination, and Dropped .....		1.13

\* Fifty-two of these completed their work in the preceding summer quarter but received the degree with this class.

## REPORT OF THE PRESIDENT

## QUALITY-POINTS

A .....	1,620	Total hours carried .....	7,878
B .....	3,848	Total hours passed.....	7,105
C .....	3,283	Total hours failed.....	773
	<hr/>		
	8,751		
Less F .....	773		
	<hr/>		
Total points earned.....	7,978		
Average per hour.....		1.01	
Average per course.....		3.25	
Average per student.....		15.86	

## B

ADVANCED FRESHMAN CLASS  
FALL SEMESTER—1937-38

Grade	Number	Percentage
A .....	7	.86
B .....	52	6.40
C .....	280	34.44
D .....	252	31.00
F .....	205	25.21
Incomplete 11)		
Absent .... 5)	17	2.09
Dropped .. 1)	<hr/>	
	813	100.00
Percentage passing grades.....		72.70
Percentage failing grades.....		25.21
Percentage Incomplete, Absent from Examination, and Dropped .....		2.09

## QUALITY-POINTS

A .....	60	Total hours carried.....	2,470
B .....	294	Total hours passed.....	1,816
C .....	851	Total hours failed.....	654
	<hr/>		
	1,205		
Less F .....	654		
	<hr/>		
Total points earned.....	551		
Average per hour.....		.22	
Average per course.....		.69	
Average per student.....		3.32	

## C

SOPHOMORE CLASS  
FALL SEMESTER—1937-38

Grade	Number	Percentage
A .....	134	6.69
B .....	457	22.83
C .....	886	44.26
D .....	377	18.83
F .....	123	6.14
Incomplete. 11)		
Absent .... 9)	25	1.25
Dropped .. 5)	<hr/>	
	2,002	100.00

Percentage passing grades.....	92.61
Percentage failing grades.....	6.14
Percentage Incomplete, Absent from Examination, and Dropped.....	1.25

## QUALITY-POINTS

A .....	1,293	Total hours carried.....	6,549
B .....	2,834	Total hours passed.....	6,141
C .....	2,781	Total hours failed.....	408
	<u>6,908</u>		
Less F .....	408		
Total points earned.....	<u>6,500</u>		
Average per hour.....			.99
Average per course.....			3.29
Average per student.....			16.05

## D

## JUNIOR CLASS

## FALL SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	158	9.17
B .....	549	31.84
C .....	748	43.39
D .....	188	10.90
F .....	51	2.96
Incomplete. 16 } .....	30	1.74
Absent .... 4 } .....		
Dropped .. 10 } .....		
	<u>1,724</u>	<u>100.00</u>

Percentage passing grades.....	95.30
Percentage failing grades.....	2.96
Percentage Incomplete, Absent from Examination, and Dropped .....	1.74

## QUALITY-POINTS

A .....	1,437	Total hours carried.....	5,212
B .....	3,364	Total hours passed.....	5,047
C .....	2,297	Total hours failed.....	165
	<u>7,098</u>		
Less F .....	165		
Total points earned.....	<u>6,933</u>		
Average per hour.....			1.33
Average per course.....			4.09
Average per student.....			20.51

## REPORT OF THE PRESIDENT

## E

SENIOR CLASS  
FALL SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	202	16.81
B .....	477	39.68
C .....	421	35.02
D .....	62	5.16
F .....	15	1.25
Incomplete. 15 } .....	25	2.08
Absent .... 5 }		
Dropped .. 5 }		
	1,202	100.00

Percentage passing grades.....	96.67
Percentage failing grades.....	1.25
Percentage Incomplete, Absent from Examination, and Dropped .....	2.08

## QUALITY-POINTS

A .....	1,788	Total hours carried.....	3,523
B .....	2,864	Total hours passed.....	3,476
C .....	1,262	Total hours failed.....	47
	5,914		
Less F .....	47		
Total points earned.....	5,867		

Average per hour.....	1.67
Average per course.....	4.98
Average per student.....	24.86

## F

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
FALL SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	669	8.13
B .....	2,145	26.08
C .....	3,377	41.06
D .....	1,288	15.66
F .....	621	7.55
Incomplete. 63 } .....	125	1.52
Absent .... 32 }		
Dropped .. 30 }		
	8,225	100.00

Percentage passing grades.....	90.93
Percentage failing grades.....	7.55
Percentage Incomplete, Absent from Examination, and Dropped .....	1.52

## QUALITY-POINTS

A .....	6,198	Total hours carried.....	25,632
B .....	13,204	Total hours passed.....	23,585
C .....	10,474	Total hours failed.....	2,047

	29,876
Less F .....	2,047
Total points earned.....	27,829

Average per hour.....	1.09
Average per course.....	3.44
Average per student.....	16.89

## G

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
 UNDERGRADUATE MEN OF TRINITY COLLEGE  
 FALL SEMESTER—CLASS AVERAGES  
 1937-38

Freshman Class .....	1.01
Advanced Freshman Class.....	.22
Sophomore Class .....	.99
Junior Class .....	1.33
Senior Class .....	1.67
Undergraduate Men, Trinity College.....	1.09

## TABLE VII

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
 UNDERGRADUATE MEN OF TRINITY COLLEGE

## A

FRESHMAN CLASS  
 SPRING SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	166	6.72
B .....	604	24.44
C .....	1,019	41.24
D .....	425	17.20
F .....	226	9.15
Incomplete. 2 }	31	1.25
Absent .... 20 }		
Dropped .. 9 }		
	2,471	100.00
Percentage passing grades .....	89.60	
Percentage failing grades.....	9.15	
Percentage Incomplete, Absent from Examination, and Dropped .....	1.25	

## QUALITY-POINTS

A .....	1,569	Total hours carried.....	7,743
B .....	3,750	Total hours passed.....	7,007
C .....	3,196	Total hours failed.....	736

	8,515
Less F .....	736
Total points earned.....	7,779

Average per hour.....	1.00
Average per course.....	3.19
Average per student.....	15.68

## B

ADVANCED FRESHMAN CLASS  
SPRING SEMESTER—1937-38

Grade	Number	Percentage
A .....	1	.22
B .....	34	7.39
C .....	195	42.39
D .....	137	29.78
F .....	81	17.61
Incomplete.. 4)	12	2.61
Absent .... 6		
Dropped ... 2		
	460	100.00

Percentage passing grades.....	79.78
Percentage failing grades.....	17.61
Percentage Incomplete, Absent from Examination, and Dropped .....	2.61

## QUALITY-POINTS

A .....	9	Total hours carried.....	1,397
B .....	206	Total hours passed.....	1,129
C .....	587	Total hours failed.....	268
	802		

Less F ..... 268

Total points earned..... 534

Average per hour.....	.38
Average per course.....	1.19
Average per student.....	5.74

## C

SOPHOMORE CLASS  
SPRING SEMESTER—1937-38

Grade	Number	Percentage
A .....	160	10.23
B .....	411	26.28
C .....	689	44.05
D .....	197	12.60
F .....	83	5.31
Incomplete 10)	24	1.53
Absent..... 10		
Dropped... 4		
	1,564	100.00

Percentage passing grades.....	93.16
Percentage failing grades.....	5.31
Percentage Incomplete, Absent from Examination, and Dropped .....	1.53



## QUALITY-POINTS

A .....	1,557	Total hours carried.....	4,945
B .....	2,574	Total hours passed.....	4,647
C .....	2,191	Total hours failed.....	298

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 6,322

Less F ..... 298

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 Total points earned..... 6,024

Average per hour..... 1.22

Average per course..... 3.91

Average per student..... 18.88

## D

## JUNIOR CLASS

## SPRING SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	183	10.33
B .....	576	32.50
C .....	749	42.27
D .....	185	10.44
F .....	43	2.43
Incomplete. 16 }	36	2.03
Absent .... 8 }		
Dropped .. 12 }		
	1,772	100.00

Percentage passing grades..... 95.54

Percentage failing grades..... 2.43

 Percentage Incomplete, Absent from Examination,  
and Dropped ..... 2.03

## QUALITY-POINTS

A .....	1,590	Total hours carried.....	5,257
B .....	3,490	Total hours passed.....	5,122
C .....	2,264	Total hours failed.....	135

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 7,344

Less F ..... 135

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 Total points earned..... 7,209

Average per hour..... 1.37

Average per course..... 4.15

Average per student..... 21.27

## E

## SENIOR CLASS

## SPRING SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	228	13.61
B .....	653	38.96
C .....	630	37.59
D .....	112	6.68
F .....	26	1.55
Incomplete. 5 }	27	1.61
Absent .... 11 }		
Dropped .. 11 }		
	1,676	100.00

Percentage passing grades.....	96.84
Percentage failing grades.....	1.55
Percentage Incomplete, Absent from Examination, and Dropped .....	1.61

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#### QUALITY-POINTS

A .....	2,172	Total hours carried.....	5013.5
B .....	3,927	Total hours passed.....	4927.5
C .....	1,893	Total hours failed.....	86.0
	<hr/>		
	7,992		
Less F .....	86		
	<hr/>		
Total points earned.....	7,906		
Average per hour.....			1.58
Average per course.....			4.79
Average per student.....			23.53

#### F

#### A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS UNDERGRADUATE MEN OF TRINITY COLLEGE SPRING SEMESTER—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	738	9.26
B .....	2,278	28.58
C .....	3,282	41.17
D .....	1,056	13.25
F .....	459	5.76
Incomplete. 65 } .....		
Absent .... 55 } .....	158	1.98
Dropped .. 38 } .....		
	<hr/>	
	7,971	100.00

Percentage passing grades.....	92.26
Percentage failing grades.....	5.76
Percentage Incomplete, Absent from Examination, and Dropped .....	1.98

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#### QUALITY-POINTS

A .....	6,897	Total hours carried.....	24,355.5
B .....	13,947	Total hours passed.....	22,832.5
C .....	10,131	Total hours failed.....	1,523.0
	<hr/>		
	30,975		
Less F .....	1,523		
	<hr/>		
Total points earned.....	29,452		
Average per hour.....			1.21
Average per course.....			3.77
Average per student.....			18.61

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
CLASS AVERAGES—SPRING SEMESTER  
1937-38

Freshman Class .....	1.00
Advanced Freshman Class.....	.38
Sophomore Class .....	1.20
Junior Class .....	1.37
Senior Class .....	1.58
Undergraduate Men, Trinity College.....	1.21

A STUDY OF THE DISTRIBUTION OF GRADES AND QUALITY-POINTS  
UNDERGRADUATE MEN OF TRINITY COLLEGE  
YEAR—1937-38

<i>Grade</i>	<i>Number</i>	<i>Percentage</i>
A .....	1,407	8.69
B .....	4,423	27.31
C .....	6,659	41.11
D .....	2,344	14.47
F .....	1,080	6.67
Incomplete . 128 }	283	1.75
Absent .... 87 }		
Dropped ... 68 }		
	16,196	100.00
Percentage passing grades.....		91.58
Percentage failing grades.....		6.67
Percentage Incomplete, Absent from Examination, and Dropped .....		1.75

QUALITY-POINTS

A .....	13,095	Total hours carried.....	49,987.5
B .....	27,151	Total hours passed.....	46,417.5
C .....	20,605	Total hours failed.....	3,750.0
	60,851		
Less F .....	3,570		
Total points earned.....	57,281		
Average per hour.....			1.14
Average per course.....			3.60
Average per student.....			36.19

TABLE VIII  
FRATERNITY AVERAGES  
YEAR—1937-38

FALL SEMESTER

Fraternity Average .....	1.304
Non-Fraternity Average .....	.976
All Men's Average.....	1.084

## SPRING SEMESTER

Fraternity Average .....	1.362
Non-Fraternity Average .....	1.051
All Men's Average.....	1.194

## SUMMARY FOR THE YEAR

Fraternity Average .....	1.337
Non-Fraternity Average .....	1.008
All Men's Average.....	1.137

The student mortality report for the class enrolled in September, 1934, was completed in June, 1938. The purpose of this report was to make a check on the causes of withdrawal of those who did not complete the requirements for degrees in the four-year period. It is interesting to note that a larger percentage of the class enrolling in September, 1934, was graduated in June, 1938, than of any class preceding it. In June, 1938, 16 per cent more of the class was graduated than in June, 1934. It should be borne in mind that these studies do not include transfer students who entered the classes after having completed a part of their work elsewhere. Were transfer students included, the percentage would naturally be increased.

## STUDENT HEALTH

The following tables from the report of Dr. J. A. Speed, Director of Student Health, will be of interest. The excellent medical care provided by the Student Health Department continues to be a source of genuine satisfaction.

TABLE I  
MEN'S STUDENT HEALTH DEPARTMENT  
COMPLETE REPORT OF AMBULATORY AND BED CASES AND  
SPECIAL CONSULTATIONS IN DUKE UNIVERSITY HOSPITAL  
YEAR 1937-38

<i>Month</i>	<i>Ambulatory Cases</i>	<i>Bed Cases</i>	<i>Consultations</i>
September.....	1,369	8	118
October.....	1,675	41	250
November.....	2,255	32	244
December.....	1,152	38	162
January.....	2,703	46	105
February.....	2,158	64	154
March.....	2,458	49	141
April.....	1,989	43	136
May.....	1,634	85	144
<i>Total</i> .....	17,393	406	1,454

TABLE II  
THE WOMAN'S COLLEGE  
COMPLETE REPORT OF AMBULATORY AND BED CASES AND  
SPECIAL CONSULTATIONS IN DUKE UNIVERSITY HOSPITAL  
YEAR 1937-38

<i>Month</i>	<i>Ambulatory Cases</i>	<i>Bed Cases</i>	<i>Consultations</i>
September.....	761	39	54
October.....	1,067	171	53
November.....	1,015	153	74
December.....	720	130	42
January.....	1,205	184	73
February.....	992	148	75
March.....	1,229	184	76
April.....	1,014	152	57
May.....	1,352	254	36
<i>Total.....</i>	9,355	1,415	540

#### PERSONAL WORK

As pointed out in previous reports, we are striving to make our work with students as effective as possible by concerning ourselves in our counseling and other relationships with whatever factors affect the full development of the individual. We are constantly conscious of the increasing need of as much individual attention as can be given.

During the year a committee was appointed from the Faculty Club to study the question of student-faculty relationships. The recommendations of this committee followed in the main those made a few years ago by the standing committee of the Faculty on student-faculty relationships. Following one specific recommendation of the Faculty Club Committee, working with a committee of students, faculty-student luncheons were begun in the last semester. These luncheons were arranged and sponsored by the 9019 Society. Our brief experience with these luncheons leads me to feel that they are worth while and should be continued.

In the fall of 1937 the Young Men's Christian Association, working in co-operation with this office and under the leadership of Mr. Merri-mon Cuninggim, Director of Religious Activities, selected from the Junior and Senior classes advisers to work in an informal, friendly way with Freshmen. Thirty-five advisers were appointed to work with Freshman groups. Undoubtedly, in many cases the advisers and those counseled profited from this experience. While it is too early to determine the effectiveness of this work, the trial of last year causes me to feel that we should expand this service for the coming year.

In view of present conditions, we feel that we were successful in the placement of a large number of the graduates of the Class of 1938. The necessity of furnishing the Director of the Placement Bureau with as full information as possible on those who seek positions through the

Placement Bureau is recognized. In addition to the scholastic record and information concerning the student's ability, it is essential that we furnish data on the student's personal qualifications. From the point of view of placements, therefore, frequent contacts with students are essential if we are to co-operate effectively with the Placement Office.

It will be remembered that in my report of last year I referred to the development of plans for a larger co-operation of the groups working directly for the promotion of the moral welfare and religious life of the campus. During the year 1937-38, the organization of the Duke University Interdenominational Church was effected. To date more than seven hundred members of the student body and University Staff have become members under the plan of affiliate membership. It is hoped that the organization of the Church, with our Official Board composed of student and staff members, will serve to stimulate a wider interest and participation in the religious life of the community.

H. J. HERRING, *Dean of Men.*

#### THE FRESHMEN

The record of the class of this year is indicative of a problem which has become more pronounced in recent years. As the average ability of successive classes has risen under selective admission, there has increased also the percentage of students who through sufficient intelligence and adequate preparation are capable of doing better than average college work and yet who fail to achieve results commensurate with their potential ability.

During the fall semester the class earned the highest quality-point per man average of any Freshman class in the history of the College, surpassing the first semester average of the famous Class of 1937. But whereas the latter class went on in the spring to achieve the remarkable average of 17.68 quality-points per man, thereby earning the highest yearly average of any Freshman class in the history of the institution, the current class in the spring dropped slightly below the fall average. The year average rated the current class as the second best in the history of the College.

There are adequate grounds for the belief that the current class was capable of better work than that of the Class of 1937: that it did not achieve results more commensurate with its ability was due in large part to the fact that students capable of doing "B" or "A" work were content with a passing average. How to induce such students to come nearer to a realization of potential ability constitutes a problem with which this office is deeply concerned. A solution lies partly in the effectiveness of the Instructional Staff, partly in wise administration of the affairs of this office.

The Masters of the Freshman Houses are interesting themselves in the problem. Under the leadership of Dr. James N. Truesdale, who succeeded Dr. Marcus Hobbs as chairman of the House Masters, they are increasing the effectiveness of their work among the Freshmen who reside in the dormitories. Through the initiative of Phi Eta Sigma,



the Freshman scholarship fraternity, scholastic rivalry between houses is being fostered by the awarding of a plaque affixed at each report time to the entrance of the house securing the highest average. The plaque alternated between Houses O and P throughout the year, the latter house regaining it in June by the notable average of 17.43 quality-points per man.

Under the sponsorship of the Y. M. C. A. an Advisory Council was organized with the purpose of aiding in Freshmen orientation by providing contacts that would be of assistance to first-year men undergoing the transition from secondary school to college life, and by developing in them attitudes that would make for wholesome mental, scholastic, and social adjustment. This general objective was to be accomplished through more specific aims such as guidance in mental and physical health, in extracurricular activity, in scholastic and financial problems, and in homesickness and social and personality adjustment.

The Council was composed of twenty-two carefully selected upper-classmen and graduate students whose work was supervised by a steering committee of three: Mr. Charles McCracken, a student member of the Council who served as chairman of the committee, Dr. James N. Truesdale, chairman of the House Masters, and Mr. Merrimon Cuninggim, Director of Religious Activities. Written reports required at stated intervals served as a check on the members of the Council; group meetings of all advisors promoted unity of effort; and the close contact maintained between the chairman and individual advisors furthered effectiveness of action.

The project is still in the experimental state; a satisfactory evaluation of results is not possible at the present time. This office recommends that the experiment be continued provided some person of mature judgment on the Staff of the University be held responsible for the careful supervision of the activities of the Council.

The work of Mr. Brantley Watson deserves mention. Despite the lack of time incident to the completion of his doctorate, he has done considerable work of the type formerly carried on by Dr. E. V. Pullias. He has shown tact and effectiveness in dealing with special problem students, and he has assisted this office in responding to the growing demand for vocational guidance.

The co-operation which this office has received from the Supervisors of Freshman Instruction has been gratifying. Through them contact with the several departments has been facilitated and matters touching the welfare of Freshmen have been handled with greater ease and efficiency.

The close connection between this office and the Panhellenic Council and the officers of individual fraternities has continued to the mutual advantage of the fraternities and the Freshmen. The response of the Y. M. C. A. to requests for co-operation and assistance has been excellent. And considerable attention is still given to the general social life on the campus.

ALAN K. MANCHESTER,  
*Dean of Freshmen*

## THE WOMAN'S COLLEGE

*To the President of the University:*

As Dean of the Woman's College I have the honor to submit the following report for the year 1937-38. Much of the material is taken from reports made to the Dean by Miss Anderson, Dean of Freshman Women and Secretary of the Council on Admissions, Miss Seabolt, Recorder, Mrs. Hazen Smith, Associate Dean of Undergraduate Instruction, and Miss Wilson, Dean of Residence.

The total enrollment for the year was the largest in the history of the College, 862 for the first semester, 874 for the year, 28 more than in 1936-37. Of this number, 58 per cent were from the South, a slight increase over last year; 32.83 per cent from the North, a decrease from 35.25 per cent in 1936-37; and 8.59 per cent from the West, an increase over 6.6 per cent in 1936-37. The number of new girls admitted was 334, not including special students, of whom 260 were Freshmen and 74 transfers with advanced standing.

The following tables give information concerning the geographical distribution.

### GEOGRAPHICAL DISTRIBUTION OF UNDERGRADUATE WOMEN

Alabama .....	9	Mississippi .....	4
Arkansas .....	4	New Hampshire .....	1
California .....	1	New Jersey .....	86
Colorado .....	1	New York .....	81
Connecticut .....	14	North Carolina .....	246
Delaware .....	11	Ohio .....	32
District of Columbia.....	16	Oklahoma .....	3
Florida .....	51	Pennsylvania .....	78
Georgia .....	25	South Carolina .....	14
Illinois .....	18	Tennessee .....	20
Indiana .....	4	Texas .....	2
Iowa .....	1	Utah .....	1
Kentucky .....	9	Virginia .....	56
Maine .....	4	West Virginia .....	24
Maryland .....	25	Wisconsin .....	2
Massachusetts .....	12	Foreign Countries and U. S.	
Michigan .....	11	Dependencies .....	5
Minnesota .....	3		
<i>Total Enrollment .....</i>			874

### GEOGRAPHICAL DISTRIBUTION OF NEW STUDENTS

South .....	203	Middle West .....	33
Middle Atlantic .....	84	Far West .....	3
New England .....	9	Foreign Countries .....	2

Of the 246 girls from North Carolina, 98 were from Durham. Of the new students, 98 or 29.31 per cent were from North Carolina and 61.5 per cent from the South.

For the first time more than two hundred women were graduated, 201 receiving the A. B. degree and 2 the B. S. degree. Of the total

number of those receiving undergraduate degrees, the women comprised 39.65 per cent as compared with 46 per cent in 1936-37 and 35.50 per cent in 1935-36.

The scholarship records were in general about as usual, although showing interesting divergences in some respects. The greatest improvement was made by the so-called Advanced Freshmen who earned 3.65 more quality-points per student than last year, passed 2.04 more semester hours per student and failed .65 fewer semester hours. The Freshmen and Sophomores made poorer records, the Juniors and Seniors better records than in 1936-37. The total number of students failing to make a "C" average was 171 or 24 per cent, distributed as follows: 91 Freshmen, 35.8 per cent of the total number of Freshmen; 21 or 70 per cent of the Advanced Freshmen; 17 or 30 per cent of the Transfers; and 63 or 12 per cent of other upperclassmen.

The following table shows the yearly average by classes.

CLASS YEARLY AVERAGE 1937-38

<i>Class</i>	<i>Q.Pts. Earned Per S.H. Carried</i>	<i>Q.Pts. Earned Per Student</i>	<i>S.H. Carried Per Student</i>	<i>S.H. Passed Per Student</i>	<i>S.H. Failed Per Student</i>
Freshmen.....	1.215	19.12	15.73	15.05	.68
Advanced Freshmen.....	.590	8.56	14.51	13.04	1.47
Sophomores.....	1.401	21.46	15.32	15.00	.32
Juniors.....	1.670	25.35	15.19	15.00	.19
Seniors.....	1.830	26.95	14.72	14.70	.02
Specials.....	1.452	7.61	5.23	4.68	.55
<i>Total.....</i>	1.471	22.11	15.03	14.66	.37
Total without Specials.....	1.471	22.45	15.26	14.89	.37

Although only five students were forced to withdraw because of failure of work, three Freshmen and two Advanced Freshmen, there were altogether 124 or 14.5 per cent who withdrew between September, 1937, and September, 1938, not including special students (29) and Seniors (203). Twenty-seven left during or at the end of the first semester, 3 during the second semester, and 93 during the summer. A study by Miss Seabolt, the Recorder, shows that 16 per cent of the Freshman class withdrew, 60 per cent of the Advanced Freshmen, 26 per cent of the Sophomores, 10 per cent of the Juniors, and only 1 or less than .5 per cent of the Seniors. Among the Advanced Freshmen were all who had not attained Sophomore standing after remaining in College for two full years.

The following table indicates the reasons given for withdrawal, but undoubtedly many of the transfers to other liberal arts colleges were due to poor scholarship or financial difficulties or a combination of the two.

The ten listed in which unsatisfactory scholarship is given as a contributory factor gave some other cause, but their scholarship was so poor that there is justification for considering it a determining factor.

#### REASONS FOR WITHDRAWAL

Transferred to Other Liberal Arts Colleges.....	33
Transferred to Business and Professional Schools.....	14
Unsatisfactory Scholarship .....	21
Dropped for failures.....	5
Advised to withdraw.....	16
Contributory factor (included in other causes).....	10
Financial .....	8
Health .....	11
Discipline .....	1
Marriage .....	9
Maladjustment .....	3
Travel .....	1
Working—In Movies .....	1
Modeling .....	1
Death in home (requiring their presence).....	2
No reason known .....	19
<i>Total</i> .....	<hr/> 124

During the year other special studies were made by Dean Anderson and Dean Smith, and by committees of Staff and Faculty or of Staff, Faculty, and students appointed by the Dean. The purpose of all these studies was, first, to find out the facts concerning the intellectual ability and interests of our students; second, to determine so far as possible the causes of their success or failure; and, third, to suggest certain remedies which might improve any unfortunate situation. Certain of these studies seem sufficiently significant to be worthy of inclusion in this report.

Checking the entrance units of the Freshmen, it was found that practically all had taken straight college preparatory courses and therefore had presented the required fifteen units in regular academic subjects. The following facts are of importance to those responsible for planning Freshman work. Two hundred and forty-six had four units of English, 14 had only three units; 128 had 2 units of French and 79 had more than 2 units; 133 had studied Latin, of whom 100 had more than 2 units; 21 had studied Spanish, of whom 4 had more than 2 units; 11 had studied German, of whom 3 had more than 2 units. Two hundred offered 3 units in Mathematics and 42 more than 3 units. One hundred and ninety-three had studied Biology, 123 Chemistry, 38 Physics, 2 Physiology, and only 5 offered no science. Two hundred had had 2 or more years of History and 67 had had 3 or more years. One hundred and fifty-eight had taken either Civics or Problems of Democracy or both.

Only 30 of these girls had stood below the first third of their class in academic rank, 184 had belonged in the upper fourth or above, and 22 had been valedictorians.

In spite of this apparently quite uniformly good academic rating, the quality of preparation was actually much more varied. The scores in the psychological test ranged from 346 to 68 with a median of 192. Of the 30 students who had ranked below the upper third of their class in high or preparatory school, only 11 scored as high as the median on this test. The following facts concerning these 30 are of special interest. At the end of the first six weeks 76 per cent failed one or more subjects; at mid-semester 40 per cent failed one or more subjects; at the end of the first semester 39 per cent; at the end of the second semester 36 per cent; and at the end of the year 6 of this group had left College and only five had made a "C" average.

Comparing this record with that of the entire Freshman class makes it yet more significant.

	<i>No. Students Failing</i>	<i>No. Courses Failed</i>	<i>Percentage of Class Failing One or More Subjects</i>
Preliminary grades—Oct. 28.....	111	150	43%
Fall mid-semester .....	67	93	26%
First semester .....	45	58	18%
Spring mid-semester .....	50	56	20%
Second semester .....	39	46	15.8%

Of those making poor scores in the psychological test, the 28 lowest were given the usual course in Education intended to help them in developing good methods and habits of study. Of these 28, 16 were North Carolinians and 25 from the South. The college records show that this group made only an average of .5887 quality-points per semester hour, while the average for the Freshman class was 1.215.

Since so many of this last group were from North Carolina, a special study was made of the entire group of Freshmen from the state. Nine ranked below the first third of their high-school class, the median psychological score was 159 as contrasted with 192 for the Freshman class, and the average number of quality-points per semester hour was 1.024 as compared with 1.215 for the class.

A like study was made by Mrs. Smith of the group of 30 Advanced Freshmen so-called. Only 3 had scored above the median in their psychological test, only 1 made Junior standing at the end of the year, 70 per cent failed to make a "C" average for the year, 2 failed to pass the necessary amount of work to remain in College, and 11 others dropped out at the end of the second semester. Forty per cent of this group dropped out by the end of the year. No significant relationship was found in geographical distribution, subjects taken, or subjects failed.

Dean Smith studied the records of the transfers admitted to Duke during the past four years. She found that 30 per cent failed to make a "C" average during their first year as compared with 12 per cent of other upperclassmen. Only 72.8 per cent of the transfers admitted in 1934 were graduated as compared with 83 per cent of the Sophomores and Juniors who had entered as Freshmen. Those transferring from four-year colleges had slightly better records than those from junior



colleges, and those entering as Sophomores better than those entering as Juniors. There was a high correlation between the student's previous record and her achievement at Duke.

In view of all these facts the Dean appointed a committee consisting of two members of the Faculty, two of the Staff, two Senior women, and two Freshman women to study the whole problem of Freshman Week and the first weeks of college and their effects on both Freshmen and upperclassmen, with a view to making such changes as should give a better opportunity for good work and ready adjustment to college life. Miss Ellen Huckabee was appointed chairman. After most thoughtful and thorough investigation the committee made an excellent report, extracts from which are quoted below.

"It was found that at the end of six weeks 43 per cent of the Freshman class were failing in one or more subjects; at mid-semester, 26 per cent; and at the end of the semester, 18 per cent. At the end of six weeks 51 per cent of the failures were made by sorority women as opposed to 49 per cent by non-sorority women, whereas at the end of the semester 38 per cent of the failures were made by sorority women as opposed to 62 per cent by the non-sorority group; that is, 13 per cent less failures by sorority women and 13 per cent more failures by non-sorority women.

"A study of the geographical distribution of failures was made also. Although 53.4 per cent of the class come from the Southern states, it was found that 71.1 per cent of those who were failing in one or more subjects at the end of the first semester were from the South; whereas, although 31 per cent of the class come from the Middle Atlantic states, only 17.8 per cent of the total figures fall in this group.

"For the purpose of getting more definite information about the failing students, the committee decided to make a careful study of the 45 students (18 per cent of the class) who failed in one or more subjects at the end of the first semester. Information concerning their high-school preparation, psychological ratings, study habits, social activities, extracurricular activities, and health records was obtained from the records in the Office of Admissions and the Infirmary, from the Dean of Freshmen, the Heads of Houses, and the Freshman Advisers.

"Upon examination of the psychological ratings, four of the failing students were found to be in the first quartile, ten in the second, ten in the third, and 21 in the fourth. Six of the 45 were said to have good study habits; 29 fair; and 10 poor.

"Time given to social activities was estimated under one of three headings: above average, average, and below average. Two failing students were included under the first heading, 23 under the second, and 20 under the third. Time given to extracurricular activities was also estimated under the same three headings. (From two to four hours per week was considered average.) Three failing students were above average, 21 average, and 21 below average. Seventeen were affiliated with sororities; 28 were not. Thirty-seven resided in the dormitories; eight resided in town. Of the 37 in the dormitories, 10 occupied single



rooms and 27 occupied double rooms. Thirty-eight were found to have good health records; 5 fair; and 2 poor.

"These findings plus the numerous observations brought out in the discussions by the three groups (Faculty, administration, and students) represented on the committee led to the following conclusions concerning the contributing causes of low grades and poor adjustment to college life:

1. That poor preparation is a factor in our situation which is not necessarily shown by the high-school records of prospective students.
2. That failure of Freshmen in the first weeks of college to understand the different methods of teaching, new types of assignment, etc., delays their progress.
3. That too few students have good study habits.
4. That Freshman classes are too large.
5. That sorority rushing, coming as it does during the beginning weeks of college, definitely interferes with the academic adjustment of Freshmen; that many Freshmen fail to study until after rushing is over.
6. That dormitory living is not as conducive to good study habits as it should be.
- 7a. That lack of participation rather than over-participation in extracurricular activities seems to slow up the adjustment of Freshmen.
- 7b. That failure to get into organizations, committees, etc., in the beginning weeks tends to preclude participation later on.

"The committee feels that with reasonable effort on the part of all groups concerned certain of these difficulties could be offset and offers, therefore, the following suggestions:

1. That the Committee on Admissions obtain whenever possible psychological ratings of prospective students and be disinclined to admit those who are in the lowest quartile, especially if they come from the poorer high schools.
- 2a. That an orientation course comprised of a series of lectures on the different techniques used in college teaching, how to study, how to budget time, etc., be given by a specialist to all Freshmen during the first month.
- 2b. That each professor co-operate by helping the Freshmen apply this knowledge to his particular course.
3. That, if possible, the size of Freshman classes be reduced.
4. That sorority rushing be deferred until after the first semester. (As our present system works, sorority rushing is given precedence over everything else. There is no Y. W. C. A. membership drive and little or no activity among other organizations until after rushing is over. Besides interfering with the academic adjustment of Freshmen, as stated above, rushing also tends to a certain extent to prevent those organizations which are open to everyone from being as useful as they might be in helping to orient Freshmen.)
- 5a. That, in order to make dormitory living more conducive to good study habits, the Student Council make a clearer definition of and work toward a better enforcement of the quiet hours.
- 5b. That Freshmen not be permitted to room with upperclassmen.
6. That, in order to help Freshmen find their way into extracurricular activities, an "Activities Night" be set apart for the end of Freshman Week. (At this time officers of the various clubs, committees, publications, etc., could explain their purposes and programs and give the Freshmen an opportunity to sign up for work with these organizations on that same evening.)

7. That, in order to give the Freshmen the much desired feeling of "belonging" and being backed by a group, the Freshmen class begin to function earlier as a class. (Suggestions: Have Frosh-Soph Day earlier. Have some kind of Freshman insignia to help Freshmen get acquainted with each other. Have more planned social life—such as informal parties in the Ark—with the class as a unit.)

"The committee had little criticism of the Freshman Week Program itself as it now stands. It was felt, however, that the two days of preliminary classes were unnecessary and that the week could be shortened by omitting them. Other minor suggestions were that the house parties scheduled for the first evening be eliminated; and that informal parties or picnics be added for those girls who are not particularly interested in dancing, but that the tea dances be continued for those who prefer that type of entertainment."

Some of these suggestions were put into effect at once, and some were held over until the fall of 1938. Before the report was presented to and accepted by the Council of Undergraduate Instruction, the Freshman Advisers had presented to the Panhellenic Council a unanimous recommendation of their own in favor of deferred rushing. This had been at first considered favorably by the Council, but on second consideration had been voted against by a majority of the sororities. Since it was already late in the year it seemed unwise to press the matter at that time. The question is, however, a vital one for the sororities and for the College and will undoubtedly come up again. It is to be hoped that a satisfactory solution can be found.

To help the transfers to a better adjustment, certain Senior women, who themselves had been transfers, were chosen to serve as advisers to transfer students and more attention was given to their special needs by members of the Staff.

Thus far this report has dealt chiefly with the failing or maladjusted student. The other side of the picture is equally significant and interesting. The total number of women who made the Dean's List was 95 for the first semester, 145 for the second, an increase of 15 over 1936-37. Thirty women made class honors; 22 were elected to Phi Beta Kappa, of whom 4 were from North Carolina and 11 from the South; 2 women won the competitive class scholarship (too small a proportion, however); 1 woman was awarded a degree *summa cum laude*, 5 *magna cum laude*; 3 women completed satisfactorily Divisional Honors work in English, Philosophy, and Fine Arts.

The Freshman class not only had more failures than in 1936-37, it had also higher records. During the first semester, 15.60 per cent made a "B" average, 16.60 per cent during the second semester. Eight made Freshman Honors at Commencement. Twenty-four by their excellent work the first semester and 5 at the end of the year won admission to Ivy, the Freshman honorary society.

Of the 22 women elected to Phi Beta Kappa, 10 were presidents of student organizations of importance. Intellectual interest and creative ability were manifested in various ways. There were, for example, a

number of intramural debates, and members of the Debating Club took part in 18 intercollegiate debates. Two women won first place honors in debate in the Southern Speech Association Tournament held in Atlanta. Many of the members of Chi Delta Phi contributed not only to the *Archive* but to various national prose and poetry contests. The Panhellenic Scholarship given to the Senior making the highest grades during her Junior and first half of her Senior year was awarded to Frances Kirkpatrick of Greensboro, North Carolina.

Not many changes were made in the method of admitting students. There was a decided increase in the number of applicants, and wise selection was all the more important. A larger proportion of applicants visited the College or were interviewed elsewhere by Dean Anderson, Dean Baldwin, or an interested alumna. For the first time a plan was developed by which the Admissions Committee could call upon certain able alumnae in different parts of the country for their help in interviewing applicants.

In spite of the increase in the room reservation fee, there was still a large number of withdrawals after the first of August. Some of these were among the best applicants. Apparently they withdrew because accepted, after College Board Examinations, by the colleges of their first choice which in some cases offered them scholarships. Their withdrawal necessitated the acceptance of students from those on the waiting list. A study of the psychological scores and grades of those accepted later show them to be less able on the whole than those accepted earlier.

This and the high correlation between failure in college and decidedly low scores on psychological tests lead to the recommendation that the Council on Admissions try to get the results of such tests given in high school and give them careful consideration before admitting an applicant and that the Council request a statement from each applicant as to whether Duke is her first choice. Such a procedure should be of help to the Council in determining a student's ability and her serious intent in applying for admission. Owing to the greatly increased work of the Council in choosing wisely among so many applicants, especially if the choice is postponed until June or July, as has been customary, it seemed best to try the experiment of giving tentative admission in the winter or spring to a few of the best applicants. If successful, this method may be extended in the coming year.

The social life of the College followed much the same pattern as in 1936-37. Mrs. Hope Summerell Chamberlain, beloved head of Pegram House, resigned in the spring of 1936, and Miss Ellen Huckabee of Albemarle, A.B. and A.M. of Duke, was appointed to take her place and to serve also as Assistant to the Dean of Residence. Miss Huckabee returned to Duke after an experience of six years as Counsellor at New Jersey College for Women.

Miss Janet Griffin, head of Aycock, also resigned, and Miss Mary Meade of Danville, Virginia, A.B. of Randolph-Macon, A.M. of the University of Virginia, was chosen in her place. Miss Meade has also had experience in such work, having been for several years Dean of

Women and Professor of Mathematics at Martin College, Pulaski, Tennessee.

Throughout the year the Staff not only continued its weekly meetings but in addition met once a month for dinner, followed by an evening of discussion. The general themes of the year were the special relation of the Staff to the College and to the University and a study of educational experiments now being carried on in American colleges and universities.

The Student Government Association had a notably good year under the presidency of Miss Mary Brent Holland of New Bern. Each year the prestige and authority of the Council is increasing, as the women take their responsibilities more seriously. Those holding important offices have come to them after several years of training in various positions and have been chosen because of their ability. The results in the initiative and leadership of these women and in the respect of their fellow-students are felt in all phases of the College life. In particular, the office of house president has become of greater importance. Each president with her committee co-operates in every way with the head of the house, handles minor cases of discipline, and, together with the head, tries to strengthen the morale of the house, give it a friendly and homelike atmosphere, afford each student an opportunity to participate in house activities, and help those who need special advice or stimulus.

One change earnestly desired by all those interested in the intellectual life of the students and in the welfare of the houses is the development of the house libraries. The Library Council of the College has offered to arrange for additions to the books and to supervise the libraries, but this offer cannot be accepted so long as the social rooms where the books should be kept are used as bedrooms for students. In some houses these rooms are vacated during the first semester, but in some they are used throughout most, if not all, of the year. As soon as feasible, these rooms should be kept free for general student use from the beginning of the year.

A measure of significance to the sororities and to the College was the adoption by Panhellenic of a quota system. Some of the chapters had grown quite large, some were small, and it seemed advisable to follow the advice of national Panhellenic by adopting a system of gradual limitation until a somewhat smaller and more uniform membership was reached. This lessened the proportion of students in sororities and led to the founding of a new local in 1936-37, and will probably mean the organization of other groups in the near future.

The year was marked by the fulfillment of what had been for years a keenly felt need, the appointment of a resident woman physician, Dr. June Thomas. She worked in close co-operation with the Department of Physical Education and was able to follow up students whose medical and physical examinations showed the need of some special oversight. During the winter term Dr. Thomas met all Freshmen once a week in connection with their course in Body Mechanics for classes in



Hygiene. In many ways she was of great help to the students, and her work has proved, beyond a doubt, the necessity of having a woman physician resident on the campus.

Other valuable additions to the Faculty were Miss Mary Louise Dowling, B.S. of the University of Pittsburgh, in the Department of Physical Education, and Dr. Katharine Jeffers, Ph.D. of the University of Missouri, in Zoology.

The great majority of the students are either members of or affiliated with some religious denomination. As heretofore the larger number are Methodists, but many churches are represented.

#### RELIGIOUS AFFILIATION OF UNDERGRADUATE WOMEN

Baptist .....	68	Moravian .....	1
Catholic .....	32	Presbyterian .....	164
Christian Scientist .....	12	Quaker .....	4
Congregational and Christian.....	32	Union or Community Churches	
Disciples of Christ.....	1	and smaller groups.....	5
Dutch Reformed .....	9	Unitarian .....	6
Episcopal .....	135	United Brethren and associated	
Hebrew .....	19	groups .....	5
Latter Day Saints.....	1	No affiliation .....	77
Lutheran .....	31	No data .....	19
Methodist .....	253		
<i>Total</i> .....			874

#### RELIGIOUS AFFILIATION OF NEW STUDENTS

Baptist .....	26	Methodist .....	103
Catholic .....	11	Presbyterian .....	67
Christian .....	5	Quaker .....	1
Christian Science .....	7	Reformed .....	1
Congregational .....	12	Unitarian .....	1
Episcopal .....	59	United Brethren .....	1
Friends .....	1	Universalist .....	1
Hebrew .....	10	No affiliation .....	20
Lutheran .....	5	No data .....	3
<i>Total</i> .....			334

Although a number of women attend church services and share in church activities in Durham, the larger number prefer to attend the University Chapel. Even then, there are a good many who attend no services regularly. It was, therefore, especially heartening to see the response of the women to the formation of the University Church. The Y. W. C. A. also had a good year. Two features of their work demand mention. In several houses Sunday night discussions of ethical and religious questions of vital concern to students were begun and, though not equally successful in all the houses, did arouse interest, especially in Jarvis House.

As in other years the Y. found its chief expression through the Social Service Committee. But this year the membership in this committee was much larger than usual. Two hundred and twenty girls were engaged in this work, most of which was connected with Durham activities, the Girl Scouts, the Wright Refuge, the Salvation Army

Home, the Juvenile Court, the Hospital and Legal Clinics, etc. The Y. W. C. A. also organized a special class for training in social work. At the end of the year the chairman of this committee recommended that a Campus Council of Social Agencies be formed in order that duplication be avoided and all social work undertaken by students be more effectively administered.

Another undertaking of interest to the campus was the publication by the Sophomore Commission of the Y. W. C. A. of a booklet called *It's Not in the Catalogue*, intended to give to new girls and friends of the College an intimate picture of the daily activities of the women students.

Again the year was marked by many gifts to the College by students and alumnae. The much needed redecoration of some of the dormitory living-rooms and the remodeling of half of Jarvis were so deeply appreciated by the girls that, through various organizations, they undertook to redecorate other rooms. The Social Standards Committee began a long-time project for making the lobby of the Union more livable and colorful, and the Senior Class gave a beautiful landscape by Ibbetson to hang on the Union walls. The Town Girls' Club, the Student Council, the Music Study Club, the Presidents' Club all improved their own club rooms. The Y. W. C. A. helped in making the former Hesperian Society room in East Duke an attractive place for their meetings. The Sandals began the remodeling of an old room in the basement of the Ark for a game room. The Student Government Association contributed money to a fund for an organ in the Auditorium.

The Class of 1939, the Centennial class, wishing to be the first to present the University with a Centennial gift, redecorated the Anna Branson Memorial Room. The decoration, carried out under the direction of Mr. Karl Bock, has won the admiration of the students for its beautiful color scheme.

Another gift of special interest was the redecorating and refurnishing of the Alumnae Room in East Duke by Mrs. Mary Duke Biddle of the Class of 1907. This work was also under the direction of Mr. Bock. The walls are panelled in oak, and the room decorated in the style of Louis XV and XVI with an original tapestry and painting of rare beauty and with much original furniture. Mrs. Biddle presented the room to the University for the Alumnae at the Alumnae Tea on May Day, and both Alumnae and students rejoice in its perfection.

To the women students it is an inspiration to live in an atmosphere of beauty. That their campus home has warmth, color, proportion, and an air of friendliness makes them more appreciative of beauty in all its forms. To all those, therefore, who help to create beauty on the campus, the Woman's College is grateful.

ALICE M. BALDWIN,  
*Dean of the Woman's College.*



## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

### *To the President of the University:*

As Dean of the Graduate School of Arts and Sciences, I have the honor to submit my report for the year 1937-38.

There were 249 students in attendance in the Graduate School during the regular academic year 1937-38. At Commencement in June, 1938, degrees were conferred as follows: Doctor of Philosophy, 29; Master of Arts, 88; Master of Education, 32. By way of comparison, the number of students in the Graduate School during the year 1936-37 was 229. At the 1937 Commencement the following degrees were conferred: Doctor of Philosophy, 24; Master of Arts, 94; Master of Education, 35.

In presenting this Graduate School report for the Centennial Year, it seems appropriate to compare the record of the year 1925-26—the last year before the Graduate School was formally organized—with that of the academic year ending at Commencement, 1938. In 1925-26 the number of graduate students enrolled was 66, of whom 57 were from North Carolina, 4 from Virginia, 2 from South Carolina, and 1 each from Kentucky, Brazil, and China. The degree of Master of Arts was conferred on 22 persons. Students in the Graduate School in that year held 27 degrees from colleges and universities other than Trinity College or Duke University.

After twelve years of progress the enrollment in the Graduate School was 249 in 1937-38. The number from North Carolina was 80 or not quite one-third. States from which four or more students were registered were: New York, 18; Virginia, 17; Pennsylvania, 14; Tennessee, 12; Georgia, 9; South Carolina, 8; New Jersey, 7; Alabama, 6; Maryland, 6; Connecticut, 5; Kentucky, 5; Mississippi, 5; District of Columbia, 4; Florida, 4; Michigan, 4; Missouri, 4; Ohio, 4; and West Virginia, 4. The remaining 33 students came from 19 other states, the Hawaiian Islands, Canada, China and Japan. Thus the Graduate School has grown from a local institution to one of truly national influence and importance.

Through the Graduate School a total of 153 persons received degrees at Commencement, 1937, and 149 at Commencement, 1938. In 1925 and 1926 the Master of Arts degree was the only graduate degree offered. The Master of Education degree has been conferred beginning with 1927 and the degree of Doctor of Philosophy beginning with 1928. Including the year 1938, the Ph.D. degree has been conferred in 18 different departments on a total of 192 candidates. In each of six departments less than five Ph.D. degrees were granted. A detailed tabulation will be found later in this report.

The students registered in the Graduate School in 1937-38 held degrees from 143 colleges and universities other than Trinity College and Duke University. In most cases these other institutions were represented by but one or two degree holders. Institutions from which three

or more degrees were received are as follows: North Carolina State College, 10; Wake Forest College, 10; Columbia University, 8; University of North Carolina, 5; Harvard University, 5; Emory University, 5; University of Richmond, 5; George Peabody College, 5; New York University, 4; University of Rochester, 4; Boston University, 3; College of Wooster, 3; Cornell University, 3; Davidson College, 3; Mississippi State College, 3; Stanford University, 3; Syracuse University, 3; University of Arkansas, 3; University of Chicago, 3; University of Michigan, 3; University of South Carolina, 3; University of Tennessee, 3; University of Virginia, 3; Vanderbilt University, 3; Winthrop College, 3; Woman's College of University of North Carolina, 3; Wofford College, 3. Students were also in attendance who had taken degrees at Oxford in England, at two Canadian colleges, and at colleges in China and Japan.

In recent years the enrollment of graduate students in the Summer School has shown a steady increase. Before 1933 undergraduates were in the majority. In that year the attendance of undergraduate and graduate students was approximately equal. Beginning with 1934 each summer has shown the graduate students in the majority and with a regularly increasing registration. In 1937 there were in attendance graduate students admitted on the basis of bachelor's degrees from 255 different colleges and universities. Consequently, the educational problems now being met are those of a summer graduate school. The number of individuals enrolled, though for only short terms of study, is considerably larger than during the regular academic year from September to June. For the most part these persons are teachers in schools and colleges who are seeking better preparation for their work and professional advancement.

In 1934, 1935, 1936, and 1937 the plan of summer instruction provided three opportunities to enroll for a six-weeks terms of study. The first term began soon after Commencement and ran until the latter part of July. This was followed by a six-weeks term which ended about September 1. A term was also especially provided for those who wished courses conducted for six weeks during midsummer. This term overlapped three weeks of the first and three weeks of the last term. In the instructional plans for the summer of 1938, the midsummer term was discontinued. A new provision permits students to register for an academic quarter of eleven weeks beginning with the opening of the first summer term. Three such quarters will meet the minimum residence requirement of thirty-three weeks for earning the Master's degree by summer study.

The enrollment of graduate students during the summers of 1934 to 1937 inclusive was as follows:

<i>Year</i>	<i>1934</i>	<i>1935</i>	<i>1936</i>	<i>1937</i>
First term .....	543	731	992	976
Midsummer term .....	119	218	180	187
Last term .....	302	289	369	396

The number of individuals represented is in each year somewhat less than the total for the three terms because of students who enrolled for both the first and last terms.

In the academic years 1936-37 and 1937-38 the Graduate School Council has by committees and in regular sessions recognized the growing importance of summer school work and has devoted much time to measures for the maintenance of the best possible instructional standards. Beginning with the summer of 1938, the total of the periods of resident graduate study required of persons desiring to obtain a Master's degree by summer work exclusively has been increased from thirty to thirty-three weeks.

Having regard to the large attendance of teachers during the summer sessions, the Graduate School Council has adopted new requirements for the degree of Master of Education when earned by summer work. The need for action to provide broader training of teachers was strongly presented by President Few in his annual report for 1935-36. The new regulations for the Master of Education degree endeavor in some measure to meet that need.

Beginning with the summer of 1938 a candidate for the Master's degree who is primarily interested in research and productive scholarship will write a thesis and follow a specialized program of study in his chosen field. At the completion of all requirements he will receive the degree of Master of Arts. On the other hand, the student who wishes to broaden his professional training as a teacher but is not interested in narrow specialization in any field may work toward the degree of Master of Education. He will not be asked to write a thesis or to meet foreign language requirements. But twelve semester hours of generalized work, analogous to Honors readings, will be required, and upon these readings a comprehensive written examination will be held at the end of the program of study for the degree. Before the Master of Education degree is actually conferred a candidate must furthermore have had two years of practical experience in teaching.

The matter of the most advantageous length for a university summer session is worthy of investigation and study. At Duke the summer session usually begins a few days after Commencement and runs for twelve weeks until about September 1. About two weeks later we have the Freshmen Orientation Program and in three weeks the formal opening of the University for the fall semester. The interval between the close of the summer session and the opening of the regular University session seems too short. Such institutions as Harvard, Columbia, Cornell, University of Pennsylvania and others have large and expensive plants and equipment, but have not found a twelve-weeks summer session wise or advantageous. The twelve-weeks session frequently results in faculty members carrying a teaching or administrative load all the year round at the expense of lost opportunities for personal research, travel, or needed refreshment and recreation. The possible advantages of a summer session limited to nine weeks might well be considered. Three such sessions with an additional term of six weeks

would be sufficient for meeting the present minimum requirements for the Master's degree.

An event of great importance to the Faculty and students in the biological sciences is the opening this summer of the Duke University Marine Laboratory at Beaufort, North Carolina. This teaching and research station is located on University property on part of the same island where for many years the United States Bureau of Fisheries has maintained a research laboratory. Besides investigations primarily of scientific importance, the Duke Marine Laboratory will also give opportunity for contributions of direct economic value in the development of the oyster, fish, and shrimp industries of the eastern Carolinas. The inauguration of this new enterprise devoted to regional research is one of the most noteworthy events of the year of the Centennial Celebration.

Research in woodland and forest problems which has for some years been conducted in the Duke Forest in connection with the Graduate School of Arts and Sciences has now entered a further stage of development. A School of Forestry has been organized and Professor Clarence F. Korstian has been elected Dean. This will be a professional graduate school and will receive students who have had undergraduate training in forestry and allied sciences. The degree of Master of Forestry will be conferred. Some students will transfer from the Graduate School of Arts and Sciences to become candidates for this professional degree. However, more advanced students who devote themselves to specialized investigation of scientific problems connected with forestry may become candidates for the degree of Doctor of Philosophy.

For the year 1938-39 the Duke Graduate School has granted a special fellowship in Botany to Donovan S. Correll, who has made notable progress in his study of orchids, to enable him to spend the year in further work in his field at Harvard University. Harvard has co-operated by aiding him with a supplementary appointment. The Graduate School is in need of an endowed fellowship or fellowships which may be granted to promising students who need to go to other universities or research institutions to gain access to needed material or to study under the direction of distinguished specialists.

Miss Edna R. Fluegel, who spent the year 1937-38 in Washington, D. C., as the holder of the Duke-Brookings Fellowship, was successful in completing her research project and received the degree of Doctor of Philosophy in Political Science at the Duke 1938 Commencement. The Duke-Brookings Fellowship for 1938-39 has been awarded to Percy L. Guyton in Economics. This fellowship should be of great value to students who are engaged in research dealing with the economic and political problems of our government.

In the past Trinity College and Duke University have through former students and graduates had an important educational and religious influence in both China and Japan. Each year many students from those countries apply for aid in coming to Duke University, but in most cases their applications must be rejected for lack of available funds.



Especially appropriate gifts to the Duke Graduate School in the Centennial Year would be endowments to support fellowships or scholarships open to promising applicants from China and Japan. Both countries seem likely to be impoverished by the present war, and aid extended in this time of emergency and distress may well be fruitful in the development of needed leaders in solving future problems of reconstruction.

All graduate schools are eager to attract students of unusual ability and promise. Each spring it is a general practice of candidates for fellowships to apply for appointment at several different universities. When an applicant is so worthy or fortunate as to receive more than one offer, his decision as to acceptance does not depend entirely upon the eminence of the faculty and the completeness of the facilities of the department concerned. The value of the stipend of the offered fellowship is frequently an important or deciding factor. Consideration is furthermore given to the nature or extent of the services which a fellow is required to give.

Several of the departments in the Duke Graduate School have urged that fellowships be made available with stipends much larger than are at present provided. They also ask that appointees be required to devote less time than at present to work other than their research and advanced studies. Such fellowships would doubtless attract able graduate students who now give preference to appointments at other universities. In view of the large amounts the University is already expending for fellowships, scholarships, and assistantships, benefactors have here an opportunity to give needed aid by establishing several endowed fellowships in addition to the Angier Duke Memorial Fellowship and the Gurney Harriss Kearns Fellowship.

Many graduate assistants are required to give as much as fifteen clock hours each week to supervision of undergraduate laboratories, reading themes and papers, and similar duties. Such students are unable to carry a full program of studies, and their compensation is very modest. This work must be done, but the stipends should be increased, if possible. In recent years, the Committee on Fellowships, Scholarships and Assistantships has endeavored to increase the stipends of assistants who are reappointed for a second year of service.

The University Council on Research, whose annual report is included in this volume, has been of great service in aiding and stimulating research on the part of members of the Graduate School Faculty and also of the other faculties and schools of the University. A generous fund has been provided in the University budget for allotment by the Council. In May, 1938, there were more than one hundred research requests, and grants were made ranging from a small amount up to \$840. The majority of the requests were from faculty members who are teaching or supervising research in the Graduate School of Arts and Sciences. A plan under which members of the Faculty who participate in the programs of learned societies will have traveling expenses to meetings paid is being operated under the management of the

Research Council. Appended to the Council's Report is a list of scholarly publications by members of the Faculty for the period beginning July 1, 1937, and ending June 30, 1938.

In several previous reports, the construction of adequate dormitory accommodations for graduate students has been earnestly advocated. During the present summer a splendid graduate dormitory center is being erected for the use of students of the Graduate School of Arts and Sciences and of the professional graduate schools. In architecture and materials the new group is in harmony with the other buildings on the West Campus, and several hundred students will be excellently housed. The graduate dormitory center is opposite the University Union and conveniently near the Library, the science laboratories, and the professional schools. Its completion during the next school year will be cause for great rejoicing and will be a long step forward in the development of the Graduate School. During the period 1928 to 1938 Ph.D. degrees have been conferred by Duke University as shown in the following tables. This degree was not conferred before 1928.

	BY YEARS	Number of Degrees
1928	.....	2
1929	.....	5
1930	.....	8
1931	.....	9
1932	.....	17
1933	.....	22
1934	.....	22
1935	.....	29
1936	.....	25
1937	.....	24
1938	.....	29
<i>Total</i>	.....	192

	BY DEPARTMENTS	
Biochemistry	.....	2
*Biology	.....	32
Chemistry	.....	30
*Economics and Political Science	.....	22
Education	.....	6
English	.....	19
Forestry	.....	2
French	.....	2
Greek	.....	4
History	.....	33
Mathematics	.....	6
Philosophy	.....	6
Physics	.....	10
Physiology	.....	1
Psychology	.....	13
Sociology	.....	4
<i>Total</i>	.....	192

\* Departments divided for the following years: 1935—Economics, 1; Political Science, 3; Zoology, 4. 1936—Botany, 3; Political Science, 2; Zoology, 3. 1937—Economics, 3; Political Science, 2; Zoology, 3. 1938—Botany, 2; Economics, 1; Political Science, 3; Zoology, 5.



Since the formal organization of the Graduate School in 1926-27 the degree of Master of Arts has been conferred by Duke University as shown in the following table. The degree of Master of Education has been conferred beginning with the year 1927. For the most part, this degree has been conferred on school superintendents, principals, supervisors, and others engaged in educational administration. This degree is not conferred upon persons who have not had as much as two years of teaching or administrative experience.

## MASTER OF ARTS DEGREES CONFERRED BY DUKE UNIVERSITY, 1927-38

<i>Department</i>	1927	1928	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	<i>Total</i>
Biochemistry.....								1					1
*Biology.....	1	2	9	4	1	9	8	5	7	10	4	9	69
Chemistry.....	1	2	2	6	1	6	8	2	4	5	5	3	45
*Economics and Political Science..	2	5	2	6	1	4	10	2	10	9	10	7	68
Education.....	10	10	9	4	4	10	6	10	14	14	10	11	112
English.....	1	11	13	8	15	15	15	9	15	12	21	28	163
Forestry.....											1	1	2
French.....				4	5	8	6	3	8	5	2	3	44
German.....		1		1			2	1	1	1	1	1	9
Greek.....	1		1	1		1		1	2		1	1	9
History.....	2	9	10	8	7	8	8	5	4	11	11	9	92
Latin.....	2		2	2	1	2	1	2	2	5	2		21
Mathematics.....	1	4	4	2	6	3	4	6	8	7	7	3	55
Philosophy.....					1	2	1		1		3	2	10
Physics.....		4	3		3	1	4			2	7	1	25
Physiology.....												1	1
Psychology.....		1	3	2	5		3	1	1	1	4	2	23
Religion.....	5		5	7	9	13	2			3	5	3	52
Sociology.....							2	1	1			1	5
Spanish.....												2	2
	26	49	63	55	59	82	80	49	78	85	94	88	808
<i>Master Ed. Degrees, 1927-1938.....</i>	1	5	5	6	11	8	11	7	17	27	35	32	165
<i>Total A. M. and M. Ed. Degrees 1927-1938.....</i>													973

NOTE 1.—The above analysis of Master's degrees conferred by Duke University 1927-1938 includes degrees conferred for work during the twelve weeks summer sessions as well as during the academic years from September to June.

\*Departments divided for the following years:

1935 — Botany, 5; Economics, 3; Political Science, 7; Zoology, 2.

1936 — Botany, 3; Economics, 2; Political Science, 7; Zoology, 7.

1937 — Botany, 3; Economics, 5; Political Science, 5; Zoology, 1.

1938 — Botany, 5; Economics, 3; Political Science, 4; Zoology, 4.

The following table shows the enrollment in the Graduate School by academic years (from September to June) and the number of degrees conferred in each year:

<i>Year</i>	<i>Students Enrolled</i>	<i>A.M.</i>	<i>M.Ed.</i>	<i>Ph.D.</i>
1926-27 .....	86	26	1	
1927-28 .....	130	49	5	2
1928-29 .....	175	63	5	5
1929-30 .....	193	55	6	8
1930-31 .....	231	59	11	9

1931-32 .....	260	82	8	17
1932-33 .....	266	80	11	22
1933-34 .....	217	49	7	22
1934-35 .....	227	78	17	29
1935-36 .....	241	85	27	25
1936-37 .....	229	94	35	24
1937-38 .....	249	88	32	29

Before concluding my last report as Dean of the Graduate School, I desire to point out that the present administrative office of the School does not afford sufficient working space. The outer office is almost filled with typewriters, desks, and filing cabinets for correspondence and records. When members of the Staff are at work, and professors and students come for necessary consultation, registration, or information, there is hardly room for them to turn around without interfering with the work that is in progress.

During recent years a storage cabinet for supplies, book cases, and many filing cabinets have been gradually encroaching on the space in the Dean's inner office. Soon there will be no place available for private conferences with professors and students, for committee meetings, and for the uninterrupted consideration of graduate school business.

The above crowded condition is a penalty of growth. Contributing factors are the keeping of all graduate records in this office; the great increase in the attendance of summer graduate students with the related correspondence; the annual fellowship and scholarship competition, each application requiring many letters to be written or acknowledged and many papers and documents to be filed; and a constant exchange of letters and information with many officials of colleges and universities, with educational and research associations and organizations, and with prospective employers with regard to the records and qualifications of graduates who are applicants for positions.

An additional room for the Graduate School Office can be provided by using space taken from the lobby to the west on the first floor of the Administration Building. The lobby might be made less adequate and convenient at registration periods, but at other times the space in question would be more profitably used than at present. If it proves not feasible to enlarge the present office in the manner above proposed, new quarters for the administrative work of the Graduate School must inevitably be found within a short time.

In retiring from the office of Dean, I desire to express to the President and Trustees my sincere thanks for the opportunity I have had to participate in the early development of the Duke Graduate School. I have full confidence that great progress in its further upbuilding will be made in the administration of my able friend and successor, Dean Calvin B. Hoover.

For all twelve years of my service as Dean, Mrs. Rebecca A. Knight has filled efficiently the position of secretary in the Graduate School Office. Her familiarity with every detail of the office work, and the system, painstaking care, and good judgment with which she discharges

her duties should prove of the greatest value at a time of change in administration. Since February, 1937, Dr. Walter H. Delaplane has been Assistant to the Dean of the Graduate School, giving part-time service while continuing as an Instructor in Economics. Dr. Delaplane has been helpful in many ways. He has rendered especially important services at registration periods and has been on full-time duty part of the Summer Session. Mrs. Edna C. Baker has served during the past year as assistant to Mrs. Knight and as recorder. She has quickly made a place for herself as an efficient and dependable member of the office staff. I am glad that so well qualified a group of helpers will be immediately available to my successor.

WILLIAM H. GLASSON,  
*Dean of the Graduate School of Arts and Sciences.*

## THE SCHOOL OF RELIGION

*To the President of the University:*

I have the honor to present the following report of the School of Religion for the year 1937-38.

The academic session of 1937-38 concludes the twelfth session of the School of Religion of Duke University. During that period 584 students have been enrolled, of which number 234 have received the degree of Bachelor of Divinity. The enrollment for the year was 105 in addition to 20 who were registered in the Junaluska School of Religion of 1937. It is encouraging to note that of the students receiving the degree of Bachelor of Divinity only six are not at present engaged in some form of religious activity. Because of illness two of these six graduates were compelled to withdraw from active religious work. The usual statistical statement is appended to this report.

### THE COMMITTEE OF THE BOARD OF TRUSTEES

The Committee of the Board of Trustees on the School of Religion visited the School on May 24. In the absence of the Dean they were received by a committee of the Faculty. After inspecting the School, the Committee had the privilege of meeting and talking with other members of the Faculty.

### WORK OF GRADUATES

The rapid progress being made by its alumni since graduation is a source of great satisfaction. Although twelve years is a relatively short period, the alumni of the School of Religion are rapidly being assigned places of leadership in their various denominations. The majority of the alumni are serving as pastors. The School of Religion is represented in the ministry of nearly all the annual conferences of Southern Methodism. Three were members of the General Conference of 1938 of the Methodist Episcopal Church, South. Graduates of the School of Religion are now either executive secretaries or extension secretaries of the Boards of Christian Education in the following annual conferences of the Methodist Episcopal Church, South: North Carolina, Western North Carolina, South Carolina, Florida, Alabama, North Mississippi, and Missouri. The presidency of the Eastern Virginia Conference, the largest Southern conference of the Congregational-Christian Church, is held by a graduate of the Duke School of Religion. Eight of the alumni are foreign missionaries. One is a member of the official staff of the General Board of Christian Education of the Methodist Episcopal Church, South, and another is an official on the Board of Church Extension of the Methodist Episcopal Church, South. Alumni of the School of Religion are faculty members of the following institutions: Birmingham-Southern College, Boston University, Brevard College, Catawba College, Coker College, Duke Univer-

sity, Emory University, Granberry College, Louisburg College, Morris-Harvey College, Queens-Chicora College, Southern Methodist University, Southwestern University, Wofford College, and Yale University.

#### INFLUENCE IN RAISING EDUCATIONAL STANDARDS

The statistics relating to the admission on trial of preachers into the Western North Carolina Conference during the past twenty years show how the School of Religion has aided in the raising of educational level of the ministry of that conference. During the ten-year period from 1918 through 1927, ninety-six preachers were admitted on trial into the Western North Carolina Conference. Twenty-nine of that number, or 30 per cent, had some theological training beyond the college education. The School of Religion was opened in 1926, and in June, 1928, the first students who had completed their entire theological training in the School of Religion were graduated. From 1928 through 1937, 106 preachers were admitted on trial into the Western North Carolina Conference. Eighty of that number, or 75 per cent, had some theological training beyond the college degree. Sixty-nine of these eighty trained preachers received their theological education in the School of Religion of Duke University. A very similar statement could be made concerning the North Carolina Conference.

#### DENOMINATIONAL AFFILIATIONS

Although the majority of the students have been members of the Methodist Episcopal Church, South, yet a broad catholic attitude has always been maintained by the School of Religion. Since 1926 students from the following denominations have enrolled: Methodist Episcopal Church, Methodist Protestant Church, Methodist Episcopal Church, South, Baptist, Congregational-Christian, Pentecostal Holiness, Presbyterian, Disciples of Christ, Protestant Episcopal, Society of Friends, Cumberland Presbyterian, Unitarian, German Reformed, and Hebrew.

The School of Religion, although serving in a particular manner the Methodist Episcopal Church, South, is committed to the program of greater interdenominational co-operation and looks forward to closer unity among the various Protestant groups. Five denominations are represented in the Faculty of the School of Religion. The School of Religion especially offers its facilities to those denominations that do not have theological schools in this section of the South. In 1936 the Southern Convention of the Congregational-Christian Church took action making the School of Religion the official center for the training of ministers of that denomination.

#### GRADUATE STUDY

It is encouraging to note that the School of Religion has inculcated into its students the desire for further graduate study in religion beyond the degree of Bachelor of Divinity. Forty-seven of the graduates of the School of Religion have pursued additional graduate work, and fourteen of them have been awarded the degree of Doctor of Philosophy.



An increasing number of students are completing their graduate work in religion at Duke. During the past academic year, nine men and women, representing three denominations, have pursued courses looking toward graduate degrees. Several others have completed their residence requirements and are engaged in writing their theses *in absentia*. Three received the degree of Master of Arts last June. Four have completed all residence requirements, including preliminary examinations, for the degree of Doctor of Philosophy, and three of them expect to complete their dissertations in time for graduation in June, 1939.

For the first time in the history of the South, a university has become sufficiently equipped to undertake graduate study and research in Religion. Duke may, in due time and with proper development, become a graduate religious research center comparable with the great eastern and western universities. Through Duke there should be equipped, during the next decade, outstanding teachers and leaders of religious thought for the South of the next generation. It is doubtful if there is another field of scholarly research and study that offers Duke a larger or more unique opportunity for distinguished service.

#### RURAL WORK ASPECT

The School of Religion is rendering a service in the field of rural church work which is unique among theological seminaries. Through the gift of the late James B. Duke for the maintenance of rural Methodist churches in North Carolina, a plan has been adopted whereby students in the School of Religion give service during the summer vacation by assisting pastors in rural sections. Five students were sent out in 1926, while sixty served during the summer of 1938.

This unique plan has been justified during the past twelve years. Not only do the theological students render earnest and efficient service to the rural churches, but they also receive practical experience that is invaluable. For their service the students receive an honorarium that makes it possible for them to continue their theological training. Professor J. M. Ormond, who administers this work, states that the plan "has provoked a multitude of inquiries from many educational administrators. The results have been gratifying both as an educational factor in training students and as a valuable contribution to the rural churches throughout the state."

The following is a summary of the work of these students during the summer of 1937: sermons preached, 1,521; number of pastoral visits, 8,220; additions in membership, 577; vacation schools, 142; with an enrollment of 6,167; Cokesbury Schools, 84, with an enrollment of 1,623; number of churches served, 255; number of members of churches served, 32,809.

#### EXTENSION WORK

In the autumn of 1928 under the leadership of Professor F. S. Hickman the School of Religion began a very interesting experiment in the direction of placing the resources of the School of Religion at the



disposal of the clergymen in the neighborhood of Durham. The experiment of inviting the preachers to meet once a month for discussion and lectures proved so successful that it led to the founding of the Phillips Brooks Club. These monthly meetings have averaged fifty in attendance over the past year. This club has attracted considerable attention, and some competent critics rank it as one of the most significant in recent North Carolina church activities.

The influence of the School of Religion upon the religious life of North Carolina and other states is also felt through the extramural activities of the faculty members. Continual calls are being made upon members of the Faculty for sermons, lectures, and for participating in Pastors' Schools and teacher training institutes, and for assistance in the work of the North Carolina Council of Churches.

Another example of the extension work of the School of Religion is the co-operation of the School with the Boards of Missions and the General Board of Christian Education of the Methodist Episcopal Church, South in sponsoring the Junaluska School of Religion each summer at Lake Junaluska.

#### GROWTH OF FACULTY

During the past year the Faculty of the School of Religion has been greatly strengthened, and additional members have been appointed for the next academic session. Dr. Homer H. Dubs, as Acting Professor of Philosophy in Duke University, taught two courses during the past year in the Department of History of Religion and Missions and has been appointed a member of the Faculty of the School of Religion for the next year. He will offer courses in Missions and in Philosophy of Religion. Assistant Professor Ray C. Petry joined the Staff in September, 1937, and has charge of the courses in the Ancient and Medieval Church. Professor Hornell N. Hart, Professor of Christian Ethics at Hartford Seminary, comes to Duke in September as Professor of Sociology in the University and as Professor of Social Ethics in the School of Religion. Dr. Albert C. Outler, an instructor in English Bible in the undergraduate school, will give during the fall semester a course in the History of Theology. Professor B. Harvie Branscomb, who has been absent on leave, will return to the University this fall and will give two-thirds of his time to the Department of New Testament. Professor R. S. Crispell of the Medical School will offer a course in Psychiatry open to students in the School of Religion. Beginning in September Dr. H. Shelton Smith will be Professor of Christian Ethics as well as Professor of Religious Education in the School of Religion.

#### CURRICULUM CHANGES

In response to a growing demand for more adequate training in homiletics, the Faculty of the School of Religion has made plans along that line. Beginning in September six semester hours of study of Homiletics will be required of all students. This course will be offered by Professor F. S. Hickman, who will be assisted by Professors G. T.

Rowe and H. E. Myers. Greater stress will be given to practice preaching by the students. The Department of Public Speaking will co-operate with the School of Religion and will provide training in the practice of speech. By these provisions the students will be provided with ample instruction in the theory and practice of preaching. In addition to this formal training the students have the opportunity of hearing the many distinguished clergymen who come as guest preachers for the University Chapel. This is a valuable contribution to the homiletic training of the students.

Other departmental changes have been the separation of the work in Practical Theology from the work in Homiletics into a department by itself and the setting up of a department of Philosophy of Religion.

#### LIBRARY

The School of Religion Library is growing rapidly, so much so that available stack space is almost filled, and the use of the reading room is so heavy that additional space is urgently needed. The Faculty recently took action asking that the funds available for library purchases should be continued in at least the amount that has been available in recent years. One notable feature of the Library is the very complete collection of minutes and journals of the leading American denominations, especially the Methodist, Protestant Episcopal, Baptist, Lutheran, and Friends. The Library is also strong in the field of Comparative Religion, and has recently been emphasizing the collection of Palestinian archaeological material. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

#### MISSIONARY INSTITUTE

Speakers in the annual Missionary Institute on March 28, 1937, were: Dr. H. P. Myers, of Nashville, Tennessee; Dr. Charles P. M. Sheffey, of Lynchburg, Virginia; and Reverend W. G. Thonger, of Brussels, Belgium. The Institute was under the direction of Mr. J. Clair Jarvis, Chairman of the Missionary Committee of the School of Religion Association, and of Professor James Cannon III of the Department of the History of Religion and Missions.

#### SOCIAL ROOM

At the beginning of the current year the Social Room was redecorated and furnished so that it became an active and important social center for the students. During the first semester it was necessary to use the kitchen for a typing room, but during the second semester, Room 06 was redecorated and fitted up with tables and chairs for typing. These arrangements made it possible for the students to enjoy opportunities for social life and recreation which were not possible before. It also relieves the pressure upon the reading room and the carrels. The Social Room has also been used for socials, forums, conferences, and other

informal gatherings. These changes have made a notable improvement in the social and religious spirit of the School.

During the year the School of Religion Assembly has been held on two days each week: Mondays and Thursdays. The arrangement of the programs has been in the hands of the student committee. During the first semester the programs were planned to fit in with the Aldersgate Celebration.

#### ALUMNI BANQUET

The annual banquet of the School of Religion Alumni took place on Thursday evening, June 9, during the Pastors' School. Leon Russell, B.D. '30, of the Hayes-Barton Church, Raleigh, gave the alumni address.

#### ALUMNI ASSOCIATION

The Alumni Association of the School of Religion was organized in June, 1934, and the first annual meeting was held in June, 1935. There is an Executive Council which meets frequently during the year, and an annual meeting is held at the University during the Pastors' School. Several annual conferences have perfected alumni organizations. Some of the objects of the Association as stated in the constitution are to supplement the work of the Duke University Alumni Association in special reference to the School of Religion; to keep in touch with the alumni in their several localities; to sponsor the publication of a periodical devoted to the special interests of the alumni; and to perform any other possible service of benefit to the School of Religion and alumni.

As a result of the activity of the alumni and with the authorization and financial support of the Board of Trustees, a quarterly *The School of Religion Bulletin* was founded in February, 1936. Through articles by faculty members and alumni, by book reviews, news items, etc., this periodical has contributed materially toward continuing the educational processes of the School of Religion beyond the campus. The *Bulletin* has a circulation of about one thousand. Another activity on the part of the Alumni Association has been the launching of a movement to secure a School of Religion Lectureship similar to the Lyman Beecher Lectureship on Preaching at Yale University.

#### AMERICAN ASSOCIATION OF THEOLOGICAL SCHOOLS

A few years ago in an attempt to raise the standard of theological education in America there was organized the American Association of Theological Schools. The School of Religion holds membership in the Association. One of the aims of the Association has been to establish a standard for acceptable theological training, and during this year a list of accredited theological seminaries has been prepared by the Association. The School of Religion made application for accreditation, and after inspection by a representative of the Association was placed on the first list of accredited schools which was announced on June 14 at the biennial meeting of the Association in Toronto.

## HONORS TO FACULTY MEMBERS

The School of Religion is honored through recognition that has come to members of the Faculty of the School of Religion in the past few years. The Dean was an official delegate at the Oxford Conference on Life and Work and the Edinburgh Conference on Faith and Order during the summer of 1937 and one of the twelve religious leaders of America selected to prepare the constitution for the establishment of a permanent World Council of Churches. In this capacity he went to Utrecht, Holland, in May and participated in the drafting of the constitution which will be presented to the various prospective constituent communions.

During the past year Professor Harvie Branscomb has been connected with the Association of American Colleges in an investigation of the use of library materials by undergraduates. The attempt of Union Theological Seminary to secure Professor Branscomb as head of the department of New Testament is a recognition of his scholarship in that field. Professors Paul N. Garber, Gilbert T. Rowe, and J. M. Ormond were delegates to the General Conference of the Methodist Episcopal Church, South, held in Birmingham, April 26-May 5, 1938. Professor Garber's pamphlet on the *Legal and Historical Aspects of the Plan of Union* is recognized as being perhaps the most significant literary contribution on the subject of Methodist unification. In June, 1938, the degree of Doctor of Divinity was conferred upon Professor James Cannon III by Birmingham-Southern College, and Professor H. E. Spence received the same honor from Asbury Theological Seminary. Under the leadership of Professor H. Shelton Smith there has been organized the North Carolina Council of Churches, representing thirteen denominations. Professor Smith has also continued his leadership in the International Council of Religious Education and in the Religious Education Association. During the second semester of 1936-37 Professor Frank S. Hickman was visiting professor at Soochow University, China. In February he addressed large Methodist rallies at Chicago and Columbus in connection with the Aldersgate Commemoration. Assistant Professor Kenneth W. Clark and Assistant Professor W. F. Stinespring have read papers for two consecutive years before the Society of Biblical Literature and Exegesis and the American Oriental Society, respectively.

## BOOKS BY FACULTY

Recent books by members of the Faculty of the School of Religion which have received much favorable comment have been *The Gospel of Mark* by Professor Branscomb; *A Descriptive Catalogue of Greek New Testament Manuscripts in America*, by Assistant Professor Clark; *John Carlisle Kilgo, President of Trinity College, 1894-1910*, by Professor Garber; *By the Waters of Bethesda* by Professor Ormond; and *More Chapel Talks* by Dean Russell.

## NEED OF MORE GRADUATES FROM THE SCHOOL OF RELIGION

In my last official report I made the following statement: "Our graduates continue to be in great demand, there being more calls during the year for more religious workers than we could supply. In order to take care of the demands for trained men, it appears necessary for us to graduate each year a larger number of men than we have previously done."

This statement has been corroborated by a study by Dr. N. C. McPherson, Jr., of the General Board of Christian Education of the Methodist Episcopal Church, South, of thirty-six annual conferences in Southern Methodism. He finds that there has been a steady increase in number of "supplies" used since 1931 and that there are 70 per cent more supply pastors being used in 1936 than in 1931.

## SCHOOL OF RELIGION

## STATISTICS

1937-38

## ENROLLMENT

Men .....	104
Women .....	1
<i>Total</i> .....	<hr/> 105

## DENOMINATIONAL AFFILIATION

Methodist Episcopal Church, South .....	93	Methodist Protestant .....	3
Baptist .....	3	Presbyterian .....	2
Congregational-Christian .....	3	Methodist Episcopal .....	1

## STATES REPRESENTED

North Carolina .....	50	West Virginia .....	3
Virginia .....	12	California .....	2
Texas .....	11	Maryland .....	2
South Carolina .....	6	Mississippi .....	2
Arkansas .....	4	Georgia .....	1
Alabama .....	3	Kentucky .....	1
Tennessee .....	3	Korea .....	1
Florida .....	3	Pennsylvania .....	1

## COLLEGES AND UNIVERSITIES REPRESENTED

Duke University .....	20	Berea College .....	2
Wofford College .....	9	Hendrix College .....	2
High Point College .....	7	University of Mississippi .....	2
Southern Methodist University .....	7	University of North Carolina .....	2
Emory and Henry College .....	5	American University .....	1
Birmingham-Southern College .....	4	Centre College .....	1
Lenoir-Rhyne College .....	4	Emory University .....	1
Elon College .....	4	Gordon College .....	1
Catawba College .....	3	Greensboro College .....	1
Davidson College .....	3	Hampden-Sidney College .....	1
Morris-Harvey College .....	3	Henderson State College .....	1
Randolph-Macon College .....	3	Lambuth College .....	1
Wake Forest College .....	3	Louisiana State College .....	1



McMurry College .....	1	Southeast Missouri State Teachers'	
Newberry College .....	1	College .....	1
Redlands College .....	1	Southwestern College .....	1
St. John's College.....	1	Tennessee Polytechnic Institute...	1
St. Paul's University.....	1	University of South Carolina.....	1
Scarritt College .....	1	University of Texas.....	1
Shepherd State Teachers' College.	1	Virginia Polytechnic Institute....	1

ELBERT RUSSELL,

*Dean of the School of Religion.*



## THE SCHOOL OF LAW

### *To the President of the University:*

Since the last annual report, the enrollment of the Law School has increased from 94 to 110. These students represent 32 states, 2 foreign countries, and 72 different colleges. The geographical distribution shows that 64.5 per cent of the student body come from the South, and 35.5 per cent from other parts of the country.

The summary of the enrollment for 1937-38 is as follows:

First-Year Class .....	52	Unclassified .....	3
Second-Year Class .....	34	Graduate Student .....	1
Third-Year Class .....	20		

During the second semester of the past year Professor Lon L. Fuller has been on leave of absence while doing research work in France and Germany. He will resume his regular work at the Law School in September, 1938. For the coming year Professor Douglas B. Maggs will be on leave of absence for the full year acting as Special Assistant to the Attorney-General of the United States. During his absence Professor A. M. Cathcart, of Stanford University, will be visiting professor for the year and will give the courses in Constitutional Law and Torts. Professor F. W. Hanft, of the University of North Carolina and an Associate Utilities Commissioner for the State of North Carolina, will lecture on Administrative Law during the first semester.

Professor Elvin R. Latty was visiting professor for the summer term of 1937 at George Washington Law School and holds a similar position for the present summer at Stanford University.

Faculty publications and activities during the past year include the following:

Professor John S. Bradway has written "Why Pay Alimony" (32 *Illinois Law Review* 295), "The Development of Regulation" (196 *The Annals* 181), and "The Family Watchdog" (86 *University of Pennsylvania Law Review* 823). Professor Bradway has also published a pamphlet entitled *How to Organize a Legal Aid Clinic*, which has been favorably reviewed in law magazines. He has also acted on Legal Aid Committees for both state and national organizations.

Professor David F. Cavers has written an article "Migratory Divorce" (16 *Social Forces* 96), and has contributed to and acted as editor of *Law and Contemporary Problems*.

Professor H. Claude Horack, in association with Mr. Will Shafroth, Advisor on Legal Education for the American Bar Association, made a survey of legal education in Tennessee at the request of the Bar Association of that state. The report was published in the May issue of the *Tennessee Law Review*, and following this report the Supreme Court took action, notably raising the educational standards of preparation for admission to the bar in Tennessee. He represented Duke University at

the dedicatory exercises held at Louisiana State University in April, taking part in the symposium on "Trends in Legal Education." His address entitled "The Practitioner's Part in Legal Education" will appear as a part of the volume containing the addresses delivered at the dedication ceremonies.

Professor E. R. Latty has prepared mimeographed materials on various phases of Chattel Transactions other than Sales, and these materials will be ready for use by students at the beginning of the year 1938-39.

Professor Charles L. B. Lowndes has published the following articles: "The Supreme Court on Taxation, 1936 Term" (86 *University of Pennsylvania Law Review* 1), "Taxing the Income from Tax-Exempt Securities" (32 *Illinois Law Review* 643), "The Federal Income Tax and Interest from State and Municipal Bonds" (3 *Legal Notes on Local Government* 345), and "Realistic Tax Revision" (66 *Trust Companies* 289). Another article of Professor Lowndes on "The Supreme Court on Taxation, 1937 Term" will appear in the November issue of the *Pennsylvania Law Review*.

Professor Douglas B. Maggs acted as general editor for the Association of American Law Schools of the four volumes of *Selected Essays on Constitutional Law*, which is now in press.

Professor Malcolm McDermott has been engaged throughout the year and will continue through the summer his work as a member of the Commission on the Revision of the Laws of North Carolina relating to Estates, serving also on the subcommittee engaged in the actual work of drafting. He has been engaged in the preparation of a new edition of the *Legislative Handbook* issued by the Law School some years ago.

Librarian William R. Roalfe contributed an article for the May issue of the *Law Library Journal* entitled "Development of the American Association of Law Libraries Under the Expansion Plan." Another article entitled "The Relation of the Library to Legal Education" will appear in the July number of the journal. This is the first of a series of three articles by Mr. Roalfe which will appear in the magazine during the coming year.

Assistant Professor Paul H. Sanders was special editor of the Winter issue of *Law and Contemporary Problems* dealing with the subject of "The 'Unauthorized Practice of Law' Controversy," and also contributed an article to this symposium entitled "Procedures for the Punishment or Suppression of Unauthorized Practice of Law." He also prepared a report on "A State Department of Justice for North Carolina" for the commission appointed by the Governor to study this subject. At the request of the chairman of this committee the report was sent to the attorney generals in each state for distribution to local committees working on this subject. He prepared a topical index for the *American Bar Association Journal* from its beginning to the end of the 1937 volume. This index, in addition to being distributed to all members of the American Bar Association, was made available in separate bound form for law libraries.

In addition to the above, a number of members of the Faculty have written reviews of some of the more important recent books, which reviews have been published in various leading law magazines.

The Law School periodicals have enjoyed a successful year. *Law and Contemporary Problems* devoted its four issues to symposia on the subjects *Farm Tenancy*, *The "Unauthorized Practice of Law" Controversy*, *Collective Bargaining under the Wagner Act*, and *The Investment of Trust Funds*. Although a large original edition was printed of the "*Unauthorized Practice of Law*" *Controversy*, it has already become necessary to arrange for its reprinting, so lively has been the demand for this important treatment of a subject of so much interest both to the bar and to many businesses. The *American Bar Association Journal* devoted a two-page review to this symposium, an attention seldom accorded another periodical. The symposium on the Wagner Act and that on the Investment of Trust Funds have also met with an unusually good response. It was found necessary to reprint during the past year several of the earlier numbers of *Law and Contemporary Problems* to supply the demand of libraries that are now seeking to complete their sets as the magazine has grown in reputation.

The *Duke Bar Association Journal* was singled out for special and favorable comment in a recent issue of the *American Judicature Society Journal*. This publication has done much to influence the establishment of other student bar associations, and many calls have been received for it from other law schools. The Duke Bar Association has been a leader in the field of bar association work in connection with law school study as a part of the training of the young lawyer in preparation for bar association work after he has entered practice. It has done much to promote proper ideas of professional activity and conduct.

The Law Library and its work have progressed steadily. The constantly increasing demand for printed matter reflecting contemporary developments in the law has continued to necessitate that the earlier materials of a fundamental nature be acquired at a rather moderate rate. Obviously the progress made under such circumstances cannot be effectively demonstrated through the citation of mere figures. The needs of the research worker are being promptly supplied with ever increasing frequency, and if the collection of five years ago is compared with the one in the Library today it is clear that the development has been both substantial and significant.

Of equal importance is the fact that definite progress is being made in the cataloguing of materials of all classes. During the year all of the sets of state documents, supplementary to the better known series of court reports and statutes, have been catalogued, and it can now be said for the first time that virtually all of the serial publications in the Library have been catalogued and arrangements made for their regular continuation. It should be noted, however, that it may be many years before scarce and expensive volumes and portions of some of these sets can be procured.

It should also be noted that the gradual increase in the use of the Law Library, heretofore reported, has continued during the past year. This has been due not only to the added demands of Law School faculty members and students, but to the extended use of the Library by the University community in general, both directly through the reader's service in the Law Library and through inter-library loan. The Law School has also actively participated in the co-operative program between the libraries of Duke University and the University of North Carolina.

During the year the Library has acquired 4,813 separate items, consisting of 1,535 bound volumes and 3,278 unbound pieces, exclusive of periodical numbers currently received and items of only temporary value. While the Library, which now contains 58,941 bound volumes is the largest in the South and is adequate for many purposes, comparisons with the libraries of some of the leading law schools effectively demonstrate that much still remains to be done. Unquestionably the two most urgent needs are more adequate housing, and a definite annual fund for the development of a foreign collection in keeping with the requirements of the several departments of the University which are vitally interested in such materials.

In response to the growing interest of the alumni in the graduate and professional schools the *Duke Alumni Register* published a supplement to the April number devoted to the School of Law. This presented in an informal manner the work and activities of the Law School, its Faculty and students. The response to this supplement has been very enthusiastic, not only from alumni of the Law School, but from the general body of Duke graduates many of whom have had little opportunity to become acquainted with the work of the professional colleges but who are as much interested in this phase of Duke's educational program as in that of the college from which they graduated.

During the past year the Law Faculty has met once a month as a discussion group to consider informally topics presented by its members.

The Law Cabins for use by law students are now in process of construction and will be ready for occupancy at the opening of the school year in September. These cabins, five in number including a large cabin for use as a social hall, will house thirty-two students, divided about equally between first-year and upperclassmen. The demand for quarters in the cabins has been much greater than the rooms available. It is hoped that the log cabins will develop into a serious study center, and in the selection of students to occupy them careful attention has been given to study habits and character. It is believed that the cabin group will do much to establish not only standards of scholarship but of professional conduct.

In submitting to you this report I feel that it would not be fair to fail to mention the enthusiastic co-operation which has been given by every member of the Law Faculty to all matters that have concerned the development of the Law School and the planning for its future.

H. CLAUDE HORACK,  
*Dean of the School of Law.*



## THE SCHOOL OF MEDICINE

*To the President of the University:*

During the past year, the School of Medicine, the School of Nursing, the School of Dietetics, and the Hospital have continued their progress, as shown in the attached table. During a fiscal year in which most business indices receded from 12 to 25 per cent, the Duke Hospital collections fell one per cent. This result would have been impossible without the complete co-operation which exists between the Staff and administration; in fact, with the committee system used in the Hospital and School of Medicine, the Staff and administration are an inseparable unit. The one hundred thousandth patient was registered April 8, 1938. A new hospital census peak of 360 patients was reached on May 11, 1938.

On June 6, 1938, fifty-four physicians were graduated, and on September 29, 1938, seventy first-year students will be admitted. The latter were selected from 607 completed applications.

The Staff and students are actively engaged in research problems. As shown in the attached list, 124 articles by 133 authors have been published during the past year. All of us appreciate the gifts and grants-in-aid in the attached list, which have made this research possible, and we hope that this support will increasingly continue. As an example of this need, the ultra-centrifugation studies of viruses by the Division of Experimental Surgery could not have been made without the generous grants from the Lederle Laboratories and the National Cancer Research Council.

We are grateful for the graduate and professional student dormitory which is being built. Medical students, due to their long hours and night work especially during their clinical years, should live near the School.

A Tumor Clinic was organized in 1935, through co-operation of the Departments of Surgery, Radiology, and Pathology. The various specialties such as Dermatology, Gynecology, Urology, etc., also have representatives on the Consulting Staff. During the past year 1,215 patients were examined and treated for cancer.

Facilities were established in January, 1937, in the Out-Patient and Private Diagnostic Clinics for the examination and treatment of patients with endocrine diseases. During the past year, 522 patients have made 2,324 visits. The generous aid of several pharmaceutical concerns (listed elsewhere) has made available to patients of limited resources ample endocrine products for their adequate treatment. Grants from the Research Council of Duke University, and the establishment here recently of a Fellowship in Clinical Endocrinology by the Ciba Pharmaceutical Products Company have permitted more complete studies of the normal and abnormal metabolism of hormones.

With the co-operation of the Pneumonia Control Commission of the State Board of Health, a course in the Typing of Pneumococci and

other means of diagnosis for laboratory technicians was held January 24 to 28, 1938. Sixty technicians attended. A Symposium on Pneumonia for 200 physicians of North Carolina was given January 28, 1938.

The School of Medicine co-operated with the Summer School in holding a School for Workers in Children's Homes and Orphanages from July 26 to August 13, 1937.

The Postgraduate Symposium on the Diseases of Women and Children on November 11 to 13, 1937, and the Postgraduate Course for Negro Physicians on November 8 to 10, 1937, were mentioned in the 1937 report.

In connection with the Centennial Program, a Symposium on Southern Medical Problems and the Future of American Medicine will be held on October 13 to 15, 1938.

With the co-operation of the Committee on Postgraduate Medical Study of the State Medical Society, short postgraduate internships at the Duke Hospital are being offered to practicing physicians.

The following visiting lecturers have addressed the Staff and students during the past year: Dr. Frank E. Adair (Memorial Hospital, New York), Dr. Harold W. Brown (University of North Carolina), Dr. E. G. Crabtree (Harvard University), Col. Guy B. Denit (U. S. Army Medical Corps), Miss Mary J. Dunn (United States Public Health Service), Dr. J. H. Epperson (Durham, N. C.), Dr. R. Finley Gayle, Jr. (Medical College of Virginia), Dr. Kurt Goldstein (New York), Dr. Victor G. Heizer (Rockefeller Foundation), Dr. Wingate M. Johnson (Winston-Salem, N. C.), Dr. Isaac H. Manning (University of North Carolina), Dr. Robert C. Page (Tuckahoe, New York), Dr. James S. Plant (Juvenile Clinic, Newark, N. J.), Miss Elizabeth P. Rice (New Haven Hospital), Dr. Edward F. Roberts (Pearl River, New York), Mr. Vilhjalmur Stefansson (New York), Dr. Hugh H. Trout (Roanoke, Va.), Dr. George H. Whipple (University of Rochester), and Dr. M. V. Ziegler (United States Public Health Service).

The Council on Medical Education and Hospitals of the American Medical Association has recommended that all American medical schools increase the amount of instruction in Preventive Medicine and Public Health. In order to improve the teaching in this field and also to co-operate with the Division of Public Health of the University of North Carolina, Dr. Harold W. Brown, D.P.H. (Harvard), D. Sc. (Johns Hopkins), M.D. (Vanderbilt), has been appointed Professor of Preventive Medicine and Public Health at Duke University. Dr. Brown is at present Professor of Preventive Medicine and Public Health at the University of North Carolina, and will retain his title there. He will spend part of his time being responsible for the teaching of Preventive Medicine and Public Health to the medical students at Duke, and the remainder in teaching similar subjects at the University of North Carolina, and in research.

The following new members have been added to the Faculty of the School of Medicine: Dr. Walter E. Daniel, Associate in Urology; Dr.



James P. Hendrix, Associate in Pharmacology and Medicine; Dr. Henry I. Kohn, Instructor in Physiology and Pharmacology; Dr. Hans Neurath, Associate in Biochemistry.

All of us greatly regret that Miss Bessie Baker, Dean of the School of Nursing, became ill on March 30, 1938. Untiring in her efforts, she has contributed more than anyone else to the success and progress of the Hospital and the School of Nursing. Their present excellent status is a great tribute to her ability. Miss Baker has been given a leave of absence, and her duties are being carried on by two joint committees of the Schools of Nursing and Medicine.

On June 6, 1938, eighteen nurses received the diploma of graduate nurse, and nineteen received the degree of Bachelor of Science in nursing, having completed at least two years of college work in addition to the three years in the School of Nursing. Fifty applicants will be admitted to the School of Nursing on September 29, 1938, making a total of eighty-nine student nurses. The fifty new probationers were selected from 300 applicants.

The School of Dietetics under Mrs. Elsie W. Martin has continued its increasingly important function of training dietitians and nurses, and of raising standards in this field. In addition, the School has splendidly maintained the dietetic division of the Hospital. During the eight years since its organization, twenty-seven dietitians have been graduated. On September 1, 1938, six student dietitians will be admitted to the School. In order to co-operate with the School of Home Economics of the University of North Carolina, four of their junior students have been admitted to our School of Dietetics to survey hospital dietetics for one month. During this same period, four hospitals, assisted by the Duke Endowment, are giving our graduate dietitians one month's experience.

When the Duke University School of Medicine and Duke Hospital were opened in 1930, we could not provide adequately for neurology, preventive medicine, social service, and psychiatry. We now have an active staff in neurology, neuro-surgery and neuro-anatomy, and hope for progress later in neuro-physiology. As stated above, a professor of preventive medicine and public health has been appointed, and arrangements have been made for co-operation in this field of teaching with the Division of Public Health of the University of North Carolina under Dr. Milton J. Rosenau. As described in the 1937 report, a social service division also has been organized, which through the co-operation of Duke University and the University of North Carolina will form a part of a joint training school for social service workers. In psychiatry, however, our facilities are still very inadequate. At present we have an associate professor and an instructor in neuropsychiatry, but we have no provision in Duke Hospital for psychiatric patients. We need an additional medical building with a psychiatric ward of twenty-three beds, and funds for an adequate staff in psychiatry.

The establishment of a clinic for psychiatry and mental hygiene at Duke, with the aid of the Social Service Division, the Legal Aid Clinic,

the Family Service Association, the Juvenile Court, and the Psychology Departments of Duke University and of the University of North Carolina, would be very valuable, not only for the treatment of patients, but for its educational value for the psychiatrists, pediatricians, and other members of the medical profession, social workers, and the community at large. Clinics also could be held monthly in communities in North Carolina, which have shown an interest in this work, which have sufficiently adequate medical and social facilities to carry on the work properly, and which would sponsor and help such clinics. Among other centers in North Carolina which have displayed an interest or which have organized a local mental hygiene committee are: Winston-Salem, Elizabeth City, Tarboro, Kinston, Goldsboro, Raleigh, Charlotte, Greensboro, Morganton, and Asheville.

An additional building between the Hospital and Nurses' Home is greatly needed for a private diagnostic clinic, examining rooms for private patients, private rooms, a psychiatric unit, and classrooms and a dining room for nurses. The present accommodations are overcrowded. It is estimated that the income from this building would, in addition to covering the cost of heat, air-conditioning and upkeep, yield an income of 5 per cent on the investment. The space in the present medical building, freed by this change, would provide badly needed laboratories.

A separate building for the ice machinery of the Hospital and for additional air-conditioning equipment is essential. At present the motors and compressors which are located under the Hospital amphitheater are so noisy that many lectures and clinics cannot be heard.

The number of nurses, dietitians, anesthetists, physiotherapists and women internes exceeds the beds in the Nurses' Home. Through the co-operation of the University and the Duke Endowment, four houses and three cabins near the Hospital are providing additional accommodations, but more will be needed during the coming year.

Tennis courts for the internes, and students of medicine and nursing, and more parking space for the patients and their relatives are needed near the Hospital, as shown on the plan submitted in 1934. The road in front of the Hospital should be re-routed behind the powerhouse to decrease the traffic, which constitutes an ever present danger to the lives of both patients and Staff.

Among other great needs are increased development for nursing education, neuro-physiology, neuro-anatomy, obstetrics, and gynecology. The minimal requirements in those fields are being met at present, but expansion is necessary and urgent.

As stated in previous reports, all of us feel that the progress which has been made by the Schools of Medicine, Nursing and Dietetics, and Hospital since their opening in 1930, can be maintained only by doing more and better work, and we are making every effort toward that goal.

WILBURT C. DAVISON,

*Dean of the School of Medicine.*

GROWTH OF THE DUKE UNIVERSITY SCHOOLS OF MEDICINE, NURSING,  
AND DIETETICS, AND THE DUKE HOSPITAL

	1934	1935	1936	1937	1938
Medical students .....	210	220	243	245	258
Pupil nurses .....	70	68	71	73	89
Student dietitians .....	4	4	4	4	6
Internes and residents....	49	57	64	71	80
Graduate nurses .....	83	107	110	119	124
Average daily patient census .....	236	279	308	311	316
Maximum daily patient census .....	278	339	348	355	360
Total days of hospital care	86,111	100,969	109,150	113,654	115,474
Total consultations in Public Dispensary ....	40,949	45,681	48,500	50,000	52,364
Total collections from bed patients .....	\$167,673	\$193,027	\$240,000	\$297,000	\$298,000
Total contributions from cities, counties, chari- ties, etc. ....	\$ 26,943	\$ 36,939	\$ 37,034	\$ 50,542	\$ 52,093
Average daily per capita collection from all sources other than Duke University and the Duke Endowment.\$	2.26	\$ 2.28	\$ 2.54	\$ 3.06	\$ 3.03

OUTSIDE GIFTS TO THE SCHOOL OF MEDICINE AND HOSPITAL,  
JULY 1, 1937-JUNE 30, 1938

An anonymous friend of Duke University has given \$25,000 for the additional endowment of the Florence McAlister Professorship of Medicine.

The Markle Foundation contributed \$4,000 for a comprehensive research program on the diagnosis and treatment of fungus infections.

Lederle Laboratories, Inc., have given \$4,500 for virus research, and \$1,200 for a Fellowship in Biochemistry.

Dr. W. J. Dann donated a desk for the Hospital lobby.

Ciba Pharmaceutical Products, Inc., gave \$300 for studying the effect of Coramine on experimental canine blacktongue, and has also contributed \$4,050 for a Fellowship in Endocrinology.

The members of the Department of Obstetrics and Gynecology donated to the University \$1,630 for technical help and \$806 for research expenses.

The following pharmaceutical companies have given to the Endocrine Division of the Department of Obstetrics and Gynecology the amounts shown opposite their names:

Ayerst, McKenna & Harrison, Montreal, Canada.....	\$8,269.88
Schering Corporation, Bloomfield, N. J.....	1,611.30
E. R. Squibb & Sons, New Brunswick, N. J.....	502.90
Parke, Davis & Co., Detroit, Mich.....	333.54
Ciba Pharmaceutical Products, Summit, N. J.....	292.80
Upjohn Company, Kalamazoo, Mich.....	200.00
G. W. Carnick Co., Jersey City, N. J.....	37.50

The following drugs have been donated:

Winthrop Chem. Co., New York, N. Y.	4 mg. flavin (approximate cost \$90)	
Merck & Co., Rahway, N. J.....	{ 600 mg. flavin 430 g. C 2,700 mg. B <sub>1</sub> }	(approximate cost \$630)
Lederle Laboratories, Inc., Pearl River, N. Y.	1,025 gm. Sodium Sulphanilyl sulfanilate	

Sharp & Dohme, Phila., Pa.....	25 gm. crystalline Hexylresorcinol—\$12.50
Billhuber Knoll Co., Jersey City, N. J.	30 cc. Sol. 10% Pentamethy- lenetetrazol—\$2.25
	30 amp. 1 cc. 10% Sol. Pen- tamethylenetetrazol—\$3.50
Ciba Pharmaceutical Co., Summit, N. J.	45 cc. pyridine-B-carboxyl- diethylamide—\$4.50
	20 amp. 1.5 cc. pyridine—BO carboxyldiethylamide—\$2.50
	3 amp. 10 cc. ditto—\$3.00

The Rockefeller Foundation has made a grant of \$3,000 to the Departments of Medicine, Bacteriology, Physiology, and Pathology.

Messrs. John Wyeth & Brother, of Philadelphia, Pa., donated an Amphojel Continuous Gastric Drip Apparatus.

Mead-Johnson Company gave \$552 for research on nutritional studies in pregnancy, several cases of Olac for premature infants, and several cases of cod liver oil and Pabulum.

The Pet Milk Company has donated several cases of evaporated milk for dispensary patients.

To the Anna H. Hanes Research Fund the following contributions were made:

Mrs. John Wesley Hanes.....	\$5,000
The Staff of the Department of Medicine.....	7,000
Mrs. Elizabeth Hanes.....	5,000
Dr. Frederic M. Hanes.....	5,000

## THE DUKE FOREST AND SCHOOL OF FORESTRY

### *To the President of the University:*

Herewith I submit the report for the Duke Forest for the year 1937-38, a brief account of activities in the Division of Forestry, and a statement concerning the developmental progress and immediate needs of our newly established Graduate School of Forestry. Now that the contemplated School of Forestry has become a reality, it may be appropriate also to inject a few comments indicating briefly the progress that has been made in the several directions since forestry was first inaugurated at Duke University in September, 1930.

### DEVELOPMENT OF THE DUKE FOREST

Since the Duke Forest was placed under intensive management in 1931, substantial progress has been made in developing the Forest as a field laboratory for demonstration, research, and for educational use by graduate students and Faculty in the School of Forestry and in the Botany and Zoology Departments.

The Forest has been surveyed, intensively cruised and mapped, and a management plan is nearing completion by Professor Maughan, Assistant Director of the Forest, and Forest Assistant Blades. A detailed set of office records are maintained covering the various operations in the Forest. With each succeeding year these records are becoming increasingly useful, in fact essentially indispensable, in connection with the demonstration, research, and teaching activities to which the Forest is objectively dedicated.

During the past several years the Forest Staff has made considerable progress in the development of sustained markets for forest products. From a small beginning in 1932, when only a few cords of wood were marketed, the sale of cordwood for fuel has steadily increased until now nearly a thousand cords are moved each year. Also several small sales of sawlogs have been made each year. Eleven carloads of yellow poplar veneer bolts have been shipped to a veneer plant. With a steady improvement in economic conditions it is anticipated that the demand for forest products will increase to the point where whatever timber is mature and can be spared from the Forest, consistent with a conservative sustained yield cutting policy, can be readily marketed.

All proceeds from the sale of forest products are deposited in the Forest Fund with other miscellaneous receipts from the area. This revolving fund provides the necessary means by which reforestation, thinning, road maintenance, and other operations are carried out in developing the Forest as a field laboratory and demonstration unit.

Plans are maturing for the cutting of a consignment of pulpwood, the first to be cut in the Forest. Economic conditions have heretofore made this type of operation unprofitable in the Forest. In the stands



from which this pulpwood will be cut the Appalachian Forest Experiment Station of the United States Forest Service is laying out permanent sample plots to be used in a co-operative study of pulpwood cuttings in Virginia and the Carolinas.

The progress that has been made in certain lines of work in the Forest in the reforestation of old fields, in erosion control, and in forest research reflects the advantage that has been taken of co-operation with governmental agencies, notably the Forest Service and Soil Conservation Service of the United States Department of Agriculture, the North Carolina Forest Service, and the National Youth Administration. The development, use, and protection of the Forest has been furthered very materially by the construction of over fifteen miles of roads and five bridges with the co-operation of the Civilian Conservation Corps, which supplied the labor. The Forest Staff provided the materials and is maintaining them.

#### PLANTING IN THE FOREST

The policy of reforesting farm lands withdrawn from cultivation for the production of agricultural crops, such as tobacco, cotton, and corn, has been continued. The stimulus given to the planting program in the Forest during the spring of 1936 due to co-operation received from the Soil Conservation Service of the United States Department of Agriculture was carried forward during the winter of 1937-38 when an additional acreage of retired agricultural land was planted. In this work, as during the previous year, the Forest Staff prepared planting plans and assisted in supervising the work, while this year the Forest supplied nearly all of the tree seedlings needed. The Soil Conservation Service supplied C.C.C. labor to plant the trees and assisted with supervision. In addition to the areas planted co-operatively with the Soil Conservation Service, several plantations were set out by a Forest crew.

A total of 37.9 acres of new plantations were established during the year; this represents a sharp decrease in new acreage planted as compared with that of previous years. Approximately 41,800 trees were used in the new plantings and 72,295 for replacements and filling in previously planted areas. Of the total number of trees planted, 77,000 were loblolly pine, 13,375 black locust, 11,700 longleaf pine, 7,500 yellow poplar, 6,000 red cedar, with the remainder consisting of small numbers of cypress, shortleaf pine, and dogwood. This year's plantings bring the total area planted in the Forest to date to 695.6 acres; and the total number of trees planted, including refills to 834,802. The net total of trees planted in new plantations exclusive of refills now stands at approximately 700,000.

As usual, all of the planting stock, with the exception of the longleaf pine, and some of the black locust, was purchased from the Division of Forestry of the North Carolina State Department of Conservation and Development and came from the forest-tree nursery maintained by the Forestry Division near Clayton, North Carolina.



A new plantation of southern cypress covering 1.34 acres was established along the Rigsbee Road, bringing the area planted to cypress to 7.05 acres. Another plantation worthy of special mention is that of red cedar—a valuable species adapted to several commercial uses.

#### SILVICULTURAL OPERATIONS IN THE FOREST

The usual practice of thinning pine stands to improve conditions as to composition and growing space in these stands, was continued during the past year. Such cuttings were made on approximately 66.8 acres. This increases the total area thus treated in the Forest since thinning operations began to 557.0 acres. The principal product obtained from the operation is cordwood. This operation also supplied 250 pine logs for the cabins erected for the temporary use of Duke Law School students in the area set aside by the University Trustees for the School of Forestry Arboretum. Another unusual feature of the thinning operations of the past year was the cutting of 430 pine poles for telephone, telegraph, and electrical transmission-line use. These were sold to a commercial creosoting company. Use in this form of all trees meeting pole specifications approximately doubles the net profit obtainable from ordinary second-growth pine stumpage for lumber.

The area of young forest stands pruned to produce a better grade of timber was also increased by 4.5 acres. The total area of stands that have received one pruning is 173.9 acres.

Final cuttings designed to obtain regeneration of the stands were confined to 7.7 acres during the year. One acre was clear cut bringing the total area thus treated since operations began in the Forest to 38.1 acres. The selection system of cutting, in which individual trees are selected and marked for removal leaving the other trees to grow and develop for subsequent cuts, was used on 6.7 acres. In all 63.7 acres have thus far been cut-over selectively since operations began in the Duke Forest.

#### PROTECTION OF THE FOREST FROM FIRE

Four fires occurred in the Forest during the year 1937-38. This is the smallest number occurring during any year since the Forest was organized. The four fires burned over an area of 3.0 acres.

Two of the fires were set by sparks from railroad locomotives. For one of these fires, which burned over 1.3 acres of a young pine plantation, damages and suppression costs were collected from the railroad. Of the other two fires, one was caused by a careless pedestrian and the other by a neighbor burning off grass.

#### PUBLIC USE OF THE FOREST

The five picnic sites that are now maintained within the Forest continued to be used extensively and during the past year were used by approximately 5,600 people. Over 2,000 people used one site last year. During the past fiscal year the cost of picnic-site servicing and maintenance amounted to over two hundred dollars, or approximately four

cents per person. The use of woods roads as bridle trails continues to increase in popularity. Approximately 7,300 persons enjoyed this form of recreation during the year. No estimates are available of the comparatively large number of people who use the Forest for hiking.

#### NATIONAL YOUTH ADMINISTRATION ACTIVITIES IN FORESTRY

Continuation during the 1937-38 college year of the Federal Government's program of providing funds for assistance to college students under the National Youth Administration enabled the Forestry Staff at Duke again to carry on many projects of an investigative and research character. Without this N. Y. A. assistance these projects could not have been carried out.

A total of 2,637 man-hours were devoted to forestry work. This is less than one-half of that available through this source during the preceding year. Of the total, 1,094 man-hours were spent in work in the Forest. The principal projects undertaken in the Forest were: pruning of 4.5 acres of young pine stands to extend the study of pruning as a silvicultural operation; remeasurement and remarking of several permanent sample plots previously established; continuing work on several studies of forest soils, and other projects of a minor nature. The remaining 1,543 man-hours were devoted to inside work which consisted primarily of drafting of maps and charts, research assistance in the forest soils and wood technology laboratories, calculating and tabulating of data collected on research projects, and general office work.

#### FOREST RESEARCH

Members of the Forestry Staff have continued their intensive program of research, and during the past year a number of projects were completed and the results prepared for publication. Also several new projects were initiated.

During the past year investigations in forest pathology have been continued through the work of Professor Wolf and four graduate students. One of these studies deals with the influence of site on the incidence of diseases in pine plantations. The results of this work are assembled, and the report is now in press. Another dealing with sapwood rot of pine caused by *Polyporus abietinus* has also been completed. The results are contained in three technical papers soon to be published. One deals with the utilization of lignin and cellulose by *P. abietinus*, another with the enzyme-producing ability of this organism, and the other with factors involved in the rate of decay of pine sapwood.

Substantial progress has been made in studies of brown spot of pines caused by *Septoria acicola*, and of a foliage disease of northern red oak, southern red oak, and blackjack oak the causal fungus of which is commonly designated *Aulographum quercinum*.

The systematic collection of fungi within the Duke Forest mentioned in last year's report was continued by Professor Wolf. An inventory of the fungi that have been collected to date is in press as Duke School

of Forestry Bulletin 2. This report also attempts to evaluate and orient the problems in forest pathology in this area that appear to be worthy of consideration.

Additional collections of fungi made during the past year include several of mycological interest. Some of these specimens have been sent to specialists, and, as a result, the disc fungus *Lachnella cedrina* (Cke.) Sacc., common on cedars, was found to belong in the genus *Chlorocypha* (Mycol. 30: 594. 1938). Moreover, a leaf-curl fungus on fern has been described as a new species, *Taphrina polystichi* Mix. (Mycol. 30: 571. 1938); and the new genus *Wolfina* has been established with *Wolfina aurantiopsis* (Ell.) Seaver, as the type. This disc fungus occurs on decaying wood and on humus. Other mycological studies that have been made deal with the life history of a leaf spot fungus of ashes and an organism on willows that is known to cause the formation of cankers on approximately fifty species of woody plants. Reports on the work done with both of these fungi are in press.

The studies in competition in forest stands mentioned in last year's report have been continued. The survival and growth of woody plants in trenched and control (untrenched) plots was under observation for another year. The manuscript by Professors Coile and Korstian on plant competition in forest stands is now in press as Bulletin 3 of the School of Forestry series.

The investigation of effect of length of day on length of growing season was continued by Professor Kramer. The work on potted seedlings which has been carried on in the greenhouse has been concluded for the present, and a paper by J. R. Jester and Dr. P. J. Kramer summarizing the results is now in press. The experiments are being continued out-of-doors on a rather large scale. Two plots of three hundred seedlings each have been established in the nursery. Each plot contains thirty trees of the following species: balsam fir, red pine, white pine, loblolly pine, shortleaf pine, slash pine, white ash, northern red oak, white oak, and yellow poplar. One plot is subjected to the ordinary or normal length of day, while the other has the length of the day prolonged by electric lights. Records of height growth are being kept to determine the effect of length of day on amount of growth and length of growing season.

An experiment on the effect of electric light on growth of pine seedlings was conducted last winter and further work is planned. It appears that seedling development may be appreciably hastened by lengthening the day with electric lights.

A graduate student completed a study of the effects of storage temperature on the germination and respiration rates of acorns. He found that northern red oak acorns after-ripened more rapidly if stored at 10 to 12.5° C. than at lower or higher temperatures. A complete account of this work is in press in *Plant Physiology*.

Substantial progress has been made by Professor Harrar on the study of the shearing and crushing strength of springwood and summerwood from trees growing under a variety of conditions. A few more tests

remain to be made upon wood resembling true compression wood, the analyses completed, and a report prepared for publication. The dendrological study of the fruits of the southern and eastern oaks is nearing completion.

A new study of the technical properties of the important exotic and domestic woods used in the American furniture industry has been initiated by Professor Harrar. Besides determining the anatomical properties which will lead to identification, relative shrinkage values, degree of hardness, ability to take glue, stiffness, and workability with tools will also be determined. An increasing demand exists for information of this kind which should be valuable to both producers and consumers of furniture.

Studies of various methods of reproducing and developing forest stands are in progress and are being extended in the Forest. Records are being maintained in a variety of silvicultural studies, some of which will soon yield sufficient results to warrant the preparation of reports. Other projects must run for a longer time for conclusive results. Because the results of these studies will not only be directly useful in the development of proper silvicultural practices for the Duke Forest but will have much wider application in the Piedmont region, progress reports will be issued whenever justified.

Work on the co-operative study in the Duke Forest dealing with the effect of removing the organic debris from the surface of the soil by raking and by burning is being continued by members of the Forestry, Botany, and Zoology Staffs. Professor Pearse reports that he has already found significant differences in the soil fauna present in the plots.

Professor Oosting is continuing a study of plant communities in the Forest, with particular reference to their floristic and successional relationships.

Other members of both the Botany and Zoology Departments are also carrying on investigations in the Duke Forest. Professor Gray has completed a study of the life history of *Passalus cornutus* and is now engaged, with a graduate student, in determining some of the physiological factors underlying the development of this wood-eating beetle. These investigators have recently (1938) published a paper on changes in the anatomy of the nervous system during the development of *Passalus*. Another graduate student completed a study of the fauna of logs. He made observations on successions in pine and oak logs, foods and ranges of toleration of animals that live in logs, and conditions of existence. Other students are studying mites in relation to forest fungi and the parasites of forest insects, particularly beetles.

#### EDUCATIONAL PROGRAM IN FORESTRY

The annual reports of the Duke Forest for the past eight years have indicated the progress that has been made in organizing and developing the Forest for demonstration, research, and instructional purposes. A pre-forestry curriculum was organized in Trinity College of Duke Uni-



versity in 1932. This curriculum includes fundamental and auxiliary subjects basic to a proper understanding of the more specialized work in scientific or technical forestry and is therefore designed for students who intend to pursue the study of forestry, particularly as a profession. Thus far instructional work in forestry has, for the most part, been restricted to the scientific branches of forestry which are considered appropriate for the degrees of Master of Arts and Doctor of Philosophy. Advanced work of this nature has been available to graduates of schools of forestry of recognized standing and to college or university graduates holding a bachelor's degree with their major work in appropriate scientific subjects. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty.

The development of the Duke Forest, the introduction of an undergraduate pre-forestry curriculum, and the inauguration and gradual expansion of graduate instruction in the scientific branches of forestry for the M.A. and Ph.D. degrees have laid the foundations for the establishment of a Graduate School of Forestry. The Trustees of Duke University at their mid-year meeting on February 2, 1938, authorized the opening of the School of Forestry in September, 1938.

The work of the Forestry School has been materially strengthened and enlarged by the addition of two men to the School Faculty effective September 1, 1938. Roy B. Thomson, formerly with the Forest Taxation Inquiry of the United States Forest Service and more recently a member of the staff of the Department of Forestry at Iowa State College, joined the Faculty as Associate Professor of Forest Economics to develop work in forest economics and forest policy. Albert E. Wackerman joined the School Faculty as Professor of Forest Utilization to develop work in logging and lumbering, forest products, and the seasoning and preservation of wood. Professor Wackerman was formerly with the Southern Forest Experiment Station of the United States Forest Service, the Southern Pine Association, and just previously to coming to Duke was Industrial Forester with the Seaboard Air Line Railway. With the addition of one more man to the School of Forestry Faculty and with the provision of more space urgently needed by the School it is believed that Duke University will be prepared to offer work for the professional degree of Master of Forestry of such quality and variety as to meet the major requirements for a satisfactory rating by the appropriate accrediting agency.

With the opening of the School of Forestry the need for professional training in technical forestry at Duke will largely be met. The professional degree of Master of Forestry will be available to students who meet the requirements of the School for this degree. Inquiries have been received from many states of the Union, British Columbia, Dominican Republic, England, and Liberia. Present indications are that approximately twenty men will be enrolled in the School of Forestry during its first year of operation and that most of these men will be candidates for the degree of Master of Forestry at the close of the

year because they have already completed undergraduate courses at other forestry schools before coming to Duke. As in previous years a number of students are enrolled in the Graduate School with forestry as their major field of study. Some work in forestry is also being elected by students majoring in other fields.

The equipment of the School has been increased and its working collections materially augmented. An Olsen timber-testing machine, having rated capacities of 20,000 and 50,000 pounds, was installed during the year, and arrangements were consummated with the Business Division of the University to use the recently installed Henderson dry-kiln for research and class use in the seasoning of wood. Over fifteen hundred prepared microscopic slides of commercial woods of North America, each slide replete with transverse, radial, and tangential sections are available in the wood anatomy and properties laboratory. An ever growing collection of authentic wood samples of the commercial timbers of the world is also maintained. In addition to over 180 species of American woods now at hand, collections from Australia, Panama, Mexico, India, and Switzerland have been added during the past year. The foreign woods have been obtained largely through exchange arrangements. A beginning has been made in the establishment of an herbarium of woody plants, which now contains approximately 300 mounted specimens and a quantity of fruit and seeds of forest trees. The collection of forest soils was also materially increased during the year.

#### IMMEDIATE NEEDS OF DUKE SCHOOL OF FORESTRY

The University administration and Trustees have evidenced a determination to make the School of Forestry at Duke University one of the leading forestry schools of the world. The organization of the Duke Forest, faculty enlargement, and designation as a Graduate School of Forestry provide the foundations upon which a school can be built.

At the beginning of the first year of operation of the School, it seems appropriate, therefore, to analyze the facilities of the School and to bring to the attention of the University administration and Trustees the urgent needs that must be met in the immediate future if the School of Forestry is to meet its obligations, reach its greatest development, and thus attain the goal set for it. The attainment of this goal is dependent upon seven essentials: (1) a thoroughly competent faculty and administrative staff; (2) students; (3) library materials; (4) one or more research and demonstration forests; (5) laboratory and field equipment; (6) a building adequate in size to provide for uncrowded classroom and laboratory instruction and research and including administrative offices, library, and other essential space and facilities of the wide variety necessary to the conduct of a Graduate School of Forestry of high standing; and (7) funds adequate to provide for the above requirements in quality and quantity commensurate with the needs of an outstanding Graduate School of Forestry.



Substantial progress has already been made in meeting the first five needs. If the objective goal is to be attained it is not enough for the School to obtain merely an accredited rating. In order to foster and maintain high standards of scholarly work, the School must have adequate facilities and resources to continue its development, particularly along all of the lines enumerated above.

A faculty having been procured and facilities mostly provided for instruction leading to advanced degrees in forestry and for the conduct of essential research both in the laboratory and in the field, it is now becoming increasingly apparent that much more space must be provided for the growing needs of the School and for collateral facilities essential to the development of a well-rounded Graduate School of Forestry of first rank. At present the most pressing needs of the School of Forestry of Duke University are those pertaining to a more adequate development of library, reference, and reading-room facilities, and the provision of indoor space for laboratories, library, classrooms, and offices.

An excellent beginning has been made toward collecting books, serials, periodicals, and pamphlets needed in the research and other work of the forestry faculty and students. A more systematic effort will now become necessary to locate and acquire back files of material still urgently needed, particularly that from foreign countries where forestry has been developed on sound scientific and economic foundations for a much longer time than in the United States and also that for the wood-using industries in all their aspects and world wide in scope. With the emphasis now being placed upon the conservation of natural resources, especially soil, forests, and forest game animals by state and federal governments in most countries of the world, a rather extensive volume of current literature is appearing, most of which should logically be added to the School of Forestry Library.

An unusually high proportion of the reference material in the various branches of forestry is in the form of pamphlets, reports, or short journal articles which are scarcely or not at all collated in bibliographies as in some other fields of knowledge. This situation necessitates either a very complete cataloguing and analyzing of the Duke School of Forestry Library or the photostating or microfilming of another very completely catalogued and analyzed forestry library such as that of the U. S. Forest Service in Washington, D. C., or the Yale School of Forestry in New Haven, Connecticut. This matter is now being investigated jointly by the forestry and library administrations following the completion of which specific recommendations will be made.

The School of Forestry and Duke Forest Staffs are now housed in the Biology Building along with the Botany and Zoology Departments. In many respects the Biology Building is unsuited for forestry purposes, since it was built primarily for the use of these two departments. For example, the main office for both the School and the Duke Forest consists of a room originally designed for experimental and lab-

oratory animals. Four permanent employees and at times four or five additional people must work in this room. Since it is located on the top floor in one of the wings of the building remote from either the front or back doors, all people having business at the office, whether they be forestry students, co-operators, or laborers inquiring about woods work, must climb three or in most cases four flights of stairs and add to the congestion in the halls and the school office.

With each addition to the Forestry Faculty either graduate students were deprived of rooms needed for individual work or graduate assistants were doubled up to such an extent as to impair the efficiency of the work in Botany or Zoology. The latest move has resulted in the concentration of a number of graduate students in another room designed and until this year used for experimental animals. The elastic limit has now been reached in the gracious provision of space by the Botany and Zoology Departments. No more is available to share graciously or otherwise.

The School of Forestry Library along with the Biology Library is at present housed in the Biology Building in a small room utterly inadequate for the use of the Botany and Zoology Departments alone, not to mention the School of Forestry. In order to provide shelf space for books and journals, partitions have been put across a portion of the main hall adjacent to the Library, and a seminar and classroom has been added to the Library as a purely temporary arrangement. Even though it were a permanent addition to the space available for the Biology and School of Forestry libraries, the situation would become just as acute again in two or three years more.

It is considered essential that the administrative offices of the School of Forestry and of the Duke Forest be segregated and made more readily accessible to people having business in either office. The School is experiencing a serious shortage of space which will become more acute during the next few years. No separate rooms and almost no space of any description is available for the uninterrupted indoor work of graduate students in the School of Forestry. Additional space is most urgently needed for indoor laboratory and office use and for the storage of equipment, dendrological and wood collections, and for exhibit and demonstrational material illustrative of forest products, various operations and techniques. The Botany and Zoology Departments already need much of the space they have released, and within a few years they will need all of it.

Because the Biology Building was not built with a view to serving a school of forestry and the entire building will soon be needed by the Botany and Zoology Departments leaving no space available for the School of Forestry, the most logical solution of the present acute shortage of space is to construct and equip a new building designed to provide the space and facilities that will be increasingly needed by the School of Forestry and the Duke Forest. This would release the laboratories, classrooms, and offices now used by the School of Forestry and at the same time overcome what now appears to be one of the most serious

obstacles, if not the greatest single obstacle, to the future progress and sound development of the School along the lines contemplated for the University by its founders.

#### ARBORETUM

Professor E. S. Harrar, in charge of the Arboretum, reports that during the past year quantities of seed have continued to arrive from various sources. The most notable shipment, a gift from the Arnold Arboretum, included a large supply of tree seed (over 200 species) collected by the 1937 Yunnan Expedition of the Fan Memorial Institute of Biology in Peiping, China. A small portion of this seed has already been sown in the nursery, and the rest has been stratified and placed in cold storage to await spring planting.

Two lining-out beds were established last spring, and much of the seedling stock was transplanted to these areas for further propagation. Because of the small size of the nursery stock, very little of it was planted in permanent locations in the Arboretum proper.

The future development of the Duke Arboretum will continue as rapidly as available funds will permit.

#### PUBLICATIONS

A number of articles of a scientific or technical nature, based upon research done in or upon material from the Duke Forest, were written during the year by members of the Faculty of the School of Forestry, members of allied departments, or graduate students. Papers by faculty and staff members published during the year are included in the list of publications appended to the report of the Chairman of the University Council on Research, in this bulletin.

It may be of interest to note, as mentioned above, that during the year two manuscripts, one by Professor Wolf and another by Professors Coile and Korstian, were prepared for publication in the Duke School of Forestry Bulletin Series and are now in press.

#### VISITORS

Professional foresters, timberland owners, and educators continue to show increasing interest in the Duke Forest. Over one hundred professional foresters from fifteen states, the District of Columbia, and five foreign countries visited the Forest during the year. A party of twenty-six German foresters and wood utilization experts visited the Forest while on a tour of the forest regions of the eastern United States. Canada, India, the Malay States, and Australia were also represented on the list of visiting foresters. Again this year 35 students from the class in silviculture at North Carolina State College, under the leadership of Professor W. D. Miller, were conducted through the plantations and various experimental and demonstration areas. A group of six students from the Yale Graduate School of Forestry enroute to Louisiana for field work also spent a day in the Forest.

## STAFF ACTIVITIES

Members of the Forestry Staff, in addition to their regular activities, continue to take an active part in the work of outside professional and scientific organizations concerned directly or indirectly with forestry or allied sciences.

Professor Maughan continued work on the compilation for the Appalachian Section of the Society of American Foresters of the handbook dealing with all forestry activities in the states of North Carolina, South Carolina, and Tennessee.

Professor Harrar is collaborating with Dr. H. P. Brown, New York State College of Forestry, Dr. R. A. Cockrell, Division of Forestry, University of California, Dr. A. J. Panshin, Department of Forestry, Michigan State College, and Professor E. W. Stark, School of Forestry, University of Idaho, in the preparation of an Atlas of American Woods. This will be a project of long duration and has just been initiated within the last few months.

Professor Schumacher has been appointed to the Editorial Board of the *Journal of Forestry* in the field of Forest Mensuration.

During June, July, and August, 1937, Professor Coile directed a study of factors influencing the establishing of loblolly pine and shortleaf pine in the Piedmont Plateau of South Carolina, North Carolina, and Virginia for the Appalachian Forest Experiment Station. A reconnaissance study was also made of the Norris Forest watershed for the Experiment Station. He also participated in a symposium on forest humus types of the United States at the meetings of the Soil Science Society of America. Professor Coile was absent on leave at Yale University during the second semester.

Professor Korstian was elected President of the Society of American Foresters in December, 1937, for a two-year term, and became a member of the Society's Executive Council Committee on Accrediting Schools of Forestry. He was also reappointed Advisory Representative to the Division of Biology and Agriculture of the National Research Council for a second three-year term. He served as a member of the State Advisory Committee on Forestry of the U. S. Soil Conservation Service and attended a field-inspection meeting near High Point, North Carolina, in May, 1938.

CLARENCE F. KORSTIAN,  
*Director of the Duke Forest and  
Dean of the School of Forestry.*

## THE SUMMER SCHOOL

*To the President of the University:*

The Summer School of 1938 was the twentieth session operated by the University. It represented increasing maturity in certain interesting particulars. In the first place, there has been through the years much uncertainty as to when the Summer School should begin and end. The uncertainty has come from the fact that the summer students include a large number of teachers from the Southeastern area and adjacent areas. A majority of these teachers go to work some time near the first Monday of September. The last term of Summer School should, therefore, close early enough to permit a reasonable time for the student to return to his work for the fall term. On the other hand, a large majority of the summer school students prefer to take their work the first term of Summer School. If the first term begins promptly after Commencement, it is easy to close the second term the last week in August. But many of the longer term schools, from which we receive summer school students, do not close their term until a week or more after the Duke University Commencement. To meet the demands of teachers in these schools, we have built up within the past four or five years a middle term of six weeks beginning about July 1. In the summers of 1936 and 1937, however, we had difficulty in reserving enough rooms to provide for the middle term enrollment. For two or three summers, also, the growth of the Summer School has severely cramped the various institutes desiring to meet upon the Duke campus the early part of the summer. The summer of 1938 we hit upon an agreement with those responsible for the Pastors' School and for the Rural Church Institute by which we postponed the opening of the Summer School until Monday following the final academic exercises of the regular year, in the hope that students who had been coming the middle term of Summer School might be enabled to come the first term, whereas the institutes could complete an intensive week before the arrival of the summer school students. We then eliminated the middle term. From the standpoint of the Summer School, the plan worked well. The enrollment of the first term of 1938 exceeded the enrollment for the first and middle terms of 1937, and the second term of 1938 was also larger than the middle and last terms of 1937. The experiment of leaving a full week between the closing of the academic year and the beginning of classes for the final term of Summer School seems, therefore, to have been quite successful, and the date of opening as set last year should be continued.

In the second place, the experience of last summer seems to indicate a solution for the problem of the length of the total summer school session. We have had various suggestions from the Faculty, and there have been many discussions among the deans and summer school directors of the Southern Association of Colleges as to this question. There have been suggestions of a term of eight weeks, four such terms being



required to complete the Master's degrees. Some institutions have tried terms of nine weeks with a six-weeks term of more limited offerings coinciding with the first part of each term and permitting the student to complete a Master's degree in three of the nine-weeks terms plus one six-weeks term. The general practice, however, has been to operate terms of six weeks and permit five such terms to count as the total residence required for the Master's degree. Most of the larger institutions of this area have operated two such terms each summer, as have we. In view of the fact that it has been hard to find time between the close of the regular academic year and the first Monday in September to find twelve weeks in the clear, there has been a very unsound tendency on the part of some institutions to "clip" the last term of the summer one week and meet classes six days each week instead of five, while giving the student the same six hours of credit he would have obtained for six weeks of actual work. The specious argument has been made that the student in five weeks of six days each meets as many classes as if he attended six weeks for five days each. The question which the Southern Association might properly have raised, that teachers in such schools were almost invariably teaching classes at least eighteen hours a week, whereas the maximum number of hours permitted for the teachers by the Association standards has long been stated as sixteen hours, has apparently not been effectively raised. The more serious phase of the matter has been the obvious fact that to require graduate students to enroll for eighteen hours of course work per week defeated one of the main purposes of graduate work, to train the student in using his own time to develop independent methods of study and research. The fact that so many southern institutions were thus weakening the six-weeks term led to the feeling of the graduate deans and the Southern University Conference that a clear rule ought to be established, requiring a minimum residence of at least thirty-three weeks for the Master's degree. Even now some institutions are counting a five-weeks term crowded with 20 per cent excess classes as six weeks, but this practice is so obviously unsound that we may confidently expect its discontinuance. At any rate, since Duke University approved the stand of the University Conference as to the maximum thirty-three weeks, the easiest computation for the thirty-three weeks residence is three summer terms of eleven weeks. We have for a number of years permitted students in the last term of Summer School to obtain five weeks of credit, a maximum of five semester hours, by taking their final examinations a week early. With the late opening of the summer session this year, it became necessary for many students to take advantage of this permission in the summer of 1938. Our experience indicates that we should work toward a summer session of eleven weeks with maximum credit of eleven semester hours. Both from the standpoint of calendar and from the standpoint of reducing the intensive work of those who desire to register for the entire summer this seems desirable. Of course, it will be necessary for two or three summers longer to permit all students who have registered for degrees before 1938 to remain for six weeks the last term of Summer School, but



we should emphasize the desirability of planning summer work in units of six to eleven weeks rather than twelve. I think we should definitely commit ourselves to the summer session of eleven weeks.

Another step forward in the summer of 1938 was the inauguration of the new requirements for the Master of Education degree. The new requirements, although apparently more difficult than the old, were generally received by students with enthusiasm. The fact that the new requirements with their difficulty carefully explained to the student were received so enthusiastically seems to answer affirmatively the question as to whether students really desire a helpful substitute for the thesis requirements instead of merely hoping for something easier. The changes in the degree required thirty-three weeks of residence instead of thirty and abolished the thesis requirements heretofore made, substituting the following work with written examination on each part:

(A) Four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school, these courses being conducted on a plane analogous to Honors reading and described as follows:

Education S300.—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

Education S304.—The school as an institution—the place of the school in society, its history, and philosophy.

Education S305.—The nature, function, and organization of the curriculum.

Education S317.—The psychological principles of education—an advanced study of teaching, learning, and the learner.

(B) The work of the minor department, including any undergraduate prerequisite the student finds it necessary to study by supervised outside reading. (For example, many teachers of history and social studies have not had undergraduate work in government or economics or sociology, yet they wish to take their minor work in this missing department in order that they may have a better background for their teaching. Under the new plan, the Summer School can encourage this desirable strengthening of preparation in the subject matter by giving reading lists based on the preliminary undergraduate work in order that the student may have the background to go on with the minor of his choice. It would seem that a teacher of American history, for example, can by independent reading and a minimum of supervision obtain the elementary knowledge of American government necessary as a basis for minor work. It is the policy of the Summer School to encourage through the Master of Education degree independent reading as a basis for the minor, although of course without any residence credit, as well as for the four "core" courses listed above.)

(C) Carefully defined major work in (a) public school administration, (b) public school supervision, (c) elementary education, or (d) secondary education, as the professional major. (It will be observed that the degree is intended for those who definitely desire

their work for professional purposes. The Master of Education degree is, therefore, not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree.)

It is apparent that students in education are offered a choice between the Master of Arts degree with a major in education and the Master of Education degree. Either degree may be completed within a minimum residence of three summer "quarters" of eleven weeks each, or five and a half summer terms of six weeks each. Both degrees are administered by the Graduate School, and only graduate courses are approved for the degrees. Students who subsequently decide to go on to the Doctor of Philosophy degree may have their credits for either Master's degree evaluated toward the higher degree.

In the fourth place the experience of the past summer tested out the sweeping changes announced last year in the requirements for Master's degrees. The changes seem sound, but certain modifications seem desirable. For instance, except where a student lacks some definite requirement (such as a year of foreign language or some undergraduate course prerequisite to graduate work he desires), it seems clear that a uniform residence requirement of thirty-three weeks should be stated instead of leaving an indeterminate requirement of thirty-three or thirty-six weeks. For universities having the quarter-system thirty-three weeks is the required residence, while many good institutions require only thirty weeks and some only four terms of six weeks with non-resident thesis. After a reasonable period of residence has been established the emphasis upon "serving time" is misplaced: the student who hopes to get a degree simply by length of residence holds on, but the capable student tends to go to equally good places that do not demand so much time. Furthermore, if we are to stress the term of eleven weeks, the difference between thirty-three weeks and thirty-six becomes a probable difference of one calendar year in completing a degree. Another point in which the new regulations for the Master's degrees should be modified is the stringent requirement that candidates for the Master of Education degree must, without option, substitute the generalized readings and comprehensive examinations for a thesis. It became apparent this past summer that many candidates who did not wish to register for the Master of Arts degree nevertheless desired to write a Master's thesis, usually on the theory that such writing is good training if they later decide to proceed to a Doctor's degree. Since the student who receives the Master of Education award in the academic year is still required to write a thesis, it seems inconsistent to be so rigid as to refuse to accept a thesis of candidates working toward the same degree during the summer. In fact, the summer candidates by reason of the lapse of time between summers frequently have more time to gather material for a thesis than have their fellows of the academic year.

On looking back over the twenty years, I believe we can see certain contributions made by the Duke University Summer School that

stand out. Some of these have been to the institution; others have had wider educational significance. The Duke Summer School was the first of the larger schools in this area to try to put summer instruction of teachers on precisely the same basis as the instruction of the regular year. We were enabled to do this more easily because we entered the field of summer work at the time when the institute as a means of training teachers was passing out. We had not, therefore, developed a clientele that was really incapable of doing college work. Some of the older summer schools of the region were more directly faced with the problem of making provision for institute-trained teachers who simply were not prepared for college work, and they felt impelled to give so-called "normal" credits that were really much resented by the teachers colleges of the area. We did not face this difficulty, but our enrollment was reduced somewhat in the early days because of the theory that our summer work was "more difficult" ("more unreasonable," as the expression came back to us) than the other summer schools. The fact that we were able to maintain strictly college standards, however, probably made it easier for other institutions to do the same thing. We have consistently from the beginning directed our instructors to give the same courses in the summer that they give during the regular year and to grade the students on precisely the same basis as their students of the academic year. As part of the same policy we have definitely opposed any attempt to develop a summer school "Commencement," on the theory that the students should not be differentiated from other students who have done the same work, in the matter of receiving their degrees. In the matter of convenience we probably have leaned too far in not giving diplomas more promptly to students who complete degrees in the summer. The Faculty and Trustees should probably provide mailing of diplomas as soon as degree work has been completed, even though the students' names appear on the program for the following June. This would avoid certain awkward situations in which the student completes one degree September 1, and then another June 10 by an additional year of residence, as well as certain situations in which the student needs credit for his degree as basis for further work, or as basis for teacher certification. So far as I know in all cases to date of the latter kind, both universities and State Departments have acted in the student's interest and accepted our statement that all degree requirements have been met; but this acceptance has been a matter of grace on the part of the accepting institution.

Another contribution that the Summer School has made has been the successful introduction of the three-semester-hour course instead of the traditional summer school credit of two semester hours. The standard summer school credit throughout the United States has been one semester hour per week of residence, and a course meeting one hour daily has quite generally carried two semester hours of credit for the six weeks. In order, therefore, to obtain six semester hours of credit, the student would normally have to carry three such courses; and the instructor who taught what was regarded as a normal schedule would teach three courses. This plan meant three different preparations daily for

the student and for the instructor; it also meant three units of work smaller by one-third than the instructors and students were accustomed to during the regular year; and it meant three separate term papers or special problems to be worked out in all advanced courses requiring such activities. By introducing the period of one hour and a half and assigning each student and instructor two such courses as a normal load, we enabled each to concentrate his efforts and avoid much lost motion. Since the student has only two preparations daily, he is able to do more intensive study and to produce much better term papers; and since a good instructor has more material in any course than he can hope to teach, his labor is materially reduced by having only two preparations daily. Visiting instructors have been particularly pleased with this arrangement, although humorous situations have arisen in the case of instructors who did not understand it was inadvisable to try to lecture for a full hour and a half. Even they, however, have learned to vary their program of work for their own sakes as well as for their students.

Another innovation of the Duke Summer School has been the offering of intensive courses in elementary foreign language so that a student could put his entire time for six weeks on one of these courses. The Department of French, German, and Spanish each in turn tried this experiment with misgivings, and each in turn has reported that the students having first- or second-year foreign language in summer school seem able to carry quite successfully the next higher courses of the academic year. The fear in each department has been that the period of "absorption" or assimilation during the Summer School would be so short in comparison with the nine-months period, that the student's apparent learning would not be real. All the studies we have made, however, seem to indicate that the student who has his first-year language in summer and goes to his second-year the next fall does at least as well as a student of similar ability who had his first-year language the preceding year. It is a fair question as to how much assimilation takes place in the case of a student who has German I at eight o'clock Monday, puts aside his book until some time Tuesday evening, and then goes to another recitation eight o'clock Wednesday, particularly if German is merely another chore to him, and he is really more interested in one or more of his other subjects. On the other hand, the intensive study of the summer builds both grammar and vocabulary for the student more nearly as he would have to build it if he were to spend a summer abroad. We have had similar experience, although not so marked, in the case of elementary science. It seems to be a fact, however, in relation to the intensive courses in science that the students of superior interest and earnest students of inferior interest respond better to the summer courses than students of average or superior ability who do not care for science. Good general students who hope to concentrate their science in one summer in order to avoid putting it on their schedules for the next year have sometimes found their science a dreary dose. In general, I am convinced that the concentration of work in the summer is most desirable for the two types of students indicated in the discussion



of the elementary science courses: those with special ability or interest, including professional students and graduate students who can work themselves up to an intensive heat of interest, and those inferior students who for some reason or other desire the particular course but are easily distracted from the disagreeable subject if they have any other subject with which to "dilute" it. On the other hand, the student who does not have any particular interest does not do any better in the summer and in so far as the summer school calls for habits of work different from his ordinary habits, he may really do worse and get less from the course.

The Summer School has consistently attempted to use as many instructors as possible from the academic year. Where it has been necessary to bring in outside instructors, the attempt has been made to employ men who were specialists in their fields and to bring them back as often as their other engagements would permit. During the past summer there were on the instructional staff of the Summer School 159 persons (counting each man employed full time for six weeks as one instructor and counting him twice if he happened to work twelve weeks). Of these, 103 were members of the Duke University Staff, 38 others had taught in previous terms of summer school, and 18 were visiting instructors teaching their first term in Duke University Summer School. Visiting men teaching graduate courses the past summer were drawn from such widely scattered institutions as Williams College, the University of Georgia, the University of Michigan, the University of North Carolina, Davidson College, the University of Virginia, the College of the City of New York, the State University of Iowa, Vanderbilt University, the University of Illinois, the University of North Dakota, Ohio State University, Texas Christian University, the University of Texas, and the University of Arizona. Since visiting men teaching graduate courses are recommended to the Council on Graduate Instruction as specialists in their fields, they are allowed special appropriation from the library budget for the summer to obtain materials that they particularly desire in their courses. I think the Summer School has contributed markedly to the working efficiency of the University Library in ordering books especially requested by such visitors. New men coming in from summer to summer have been exceedingly complimentary of the usable materials we already have in their fields. The use of the University Libraries during the summer has for a number of years exceeded the use during the regular year.

Another contribution the Summer School has made to the University has been the carrying over into the regular year of recreational and social features developed during the summer. Since the Summer School has no extracurricular activities corresponding to those of the academic year, it has had to develop a recreational and social program apart from the student activities so prominent at other times.

The Summer School of 1938 showed total enrollment of 3,375, made by 2,742 students (this latter figure being obtained by counting only once students who enrolled for more than one term of six weeks), as com-

pared with 2,953 enrollment in 1937, made by 2,536 students. There were, in addition to these 3,375 registrations, 138 students enrolled in the Schools of Medicine and Nursing, making a total of 3,513 registrations for the summer session, or 2,880 individual students. Of these registrations, 2,163 students were enrolled in the first term of the Summer School, 1,008 in the second term, 185 in the Junaluska Summer School, Inc., 14 the first term and five the last term at the Marine Laboratory at Beaufort, and 138 in the Medical School and the School of Nursing. Of the total registrations 1,681 in the first term (including seven at Beaufort), 701 in the second term (including two at Beaufort), and 102 at Junaluska were by teachers in the public schools, a total of 2,484 as compared with 2,135 in 1937.

Leaving out of consideration the students of professional schools and those enrolled at Junaluska, we had the distribution of graduate and undergraduate students shown in Table I.

TABLE I  
NUMBER OF GRADUATES AND UNDERGRADUATES, MEN AND WOMEN  
ENROLLED IN SUMMER SCHOOL, 1938

	<i>Men</i>		<i>Women</i>		<i>Total</i>		<i>Total Registrations</i>
	<i>I*</i>	<i>II</i>	<i>I</i>	<i>II</i>	<i>I</i>	<i>II</i>	
Graduates.....	567	308	767	298	1,334	606	1,940
Undergraduates.....	323	178	520	229	843	407	1,250
<i>Total</i> .....	890	486	1,287	527	2,177	1,013	3,190
Total 1937, for comparison..	739	354	1,002	345	1,741	699	2,748**

\*I, First Term; II, Last Term.

\*\*The 1937 total includes 112 men and 196 women who enrolled in a "Midsummer Term."

The graduate students constituted 61 per cent of the total enrollment, as compared with 57 per cent in 1937. There was an increase of 371 graduate registrations and of only 61 undergraduate registrations. There was an increase of 171 men to give a total in the graduate and undergraduate schools of 1376, as compared with an increase of 271 women to give a corresponding total of 1814. There were, however, a few more graduate men than graduate women enrolled the last term. The undergraduate women have throughout the history of the Summer School outnumbered the undergraduate men. This preponderance arises from the fact that practically all of the undergraduate teachers who enroll in summer school are women, and from the fact that certain colleges for women in this area that do not operate summer schools seem to encourage their students to come here. Table II gives the distribution of undergraduate students among the nineteen departments offering undergraduate work. Education, English, economics, French, German, political science, and psychology show slight decreases as compared with 1937. English and economics, however, made good gains the year before. Civil



engineering, history, religion, and sociology show more definite increases. Sociology increased from 54 to 107, and engineering from 31 to 53.

TABLE II  
DISTRIBUTION OF UNDERGRADUATE STUDENTS BY DEPARTMENTS, 1938

<i>Department</i>	<i>I</i>			<i>II</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Education.....	15.5	182.	197.5	24.5	79.	103.5	301.
Botany.....	1.	....	....	.5	....	.5	1.5
Chemistry.....	25.5	4.	29.5	11.	6.5	17.5	47.
Civil Engineering	53.	....	53.	....	....	....	53.
Economics.....	49.	46.	95.	17.5	9.5	27.	122.
English.....	39.	77.5	116.5	25.5	30.5	56.	172.5
Forestry.....	1.	....	1.	3.	....	3.	4.
French.....	17.	13.5	30.5	7.5	6.	13.5	44.
German.....	11.	5.	16.	14.	2.	16.	32.
History.....	27.	43.	70.	36.5	26.	62.5	132.5
Hygiene and Health.....	4.	16.	20.	....	....	....	20.
Mathematics.....	....	.5	.5	....	....	....	.5
Physics.....	8.5	5.	13.5	....	....	....	13.5
Political Science	14.5	33.5	48.	12.5	8.	20.5	68.5
Psychology.....	3.5	4.5	8.	2.5	1.5	4.	12.
Religion.....	27.5	25.	52.5	7.	8.5	15.5	68.
Sociology.....	4.5	49.	53.5	9.	44.5	53.5	107.
Spanish.....	13.5	14.	27.5	7.	4.	11.	38.5
Zoology.....	8.	1.5	9.5	1.	2.	3.	12.5
<i>Total.....</i>	323.	520.	842.	179.	228.	407.	1250.

Table III shows the distribution of graduate students by departments. The enrollment listed in engineering, hygiene, and German were by graduate students in undergraduate courses. As compared with the summer of 1937, the enrollment in education shows a gain of 231 students, English of 48, history of 39, French of 25, sociology of 20, and zoology of 18. Economics shows a loss of 17, and mathematics of 7, but enrollment in the other departments varied little from 1937.

Of the graduate students, 86 were working full-time on Master's theses in education, 14 in English, 13 in history, 10 in French, 6 in economics, 6 in chemistry, and 12 others divided among the Departments of Botany, Mathematics, Physics, Psychology, Religion, Sociology, and Zoology. Others were working part-time upon theses in various departments.

The graduate students of 1938 were admitted from 316 colleges in 36 states, District of Columbia, Puerto Rico, and Japan. The entire student body represented 368 colleges and junior colleges in 38 states, the District of Columbia, Hawaii, Puerto Rico, and Japan. The students themselves represented 38 states, besides the District of Columbia, Puerto Rico, Canada, Cuba, England, China, Japan, and Korea. Within the past five years the Summer School has drawn students from every

TABLE III  
DISTRIBUTION OF GRADUATE STUDENTS BY DEPARTMENTS, 1938

<i>Department</i>	<i>I</i>			<i>II</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Education.....	303.	343.	646.	184.5	133.	317.5	963.5
Botany.....	7.5	1.	8.5	5.5	4.	9.5	18.
Chemistry.....	14.	5.	19.	4.	2.	6.	25.
Civil Engineering.....	.5	.....	.5	.....	.....	.....	.5
Economics.....	23.5	10.5	34.	8.	9.	17.	51.
English.....	49.	173.5	222.5	24.5	71.	95.5	318.
Forestry.....	1.	.....	1.	2.	.....	2.	3.
French.....	8.5	48.5	57.	4.5	14.	18.5	75.5
German.....	8.	10.5	18.5	1.	.5	1.5	20.
History.....	65.5	85.5	151	25.	19.5	44.5	195.5
Hygiene and Health.....	.....	4.5	4.5	.....	.....	.....	4.5
Mathematics.....	21.5	24.	45.5	14.5	10.	24.5	70.
Physics.....	7.	2.	9.	2.5	.....	2.5	11.5
Political Science.....	13.	7.	20.	8.5	5.	13.5	33.5
Psychology.....	9.	5.5	14.5	8.	8.5	16.5	31.
Religion.....	5.	7.	12.	2.	2.5	4.5	16.5
Sociology.....	18.	26.5	44.5	5.5	10.	15.5	60.
Spanish.....	2.	4.	6.	.....	.5	.5	6.5
Zoology.....	11.	9.	20.	8.	8.5	16.5	36.5
<i>Total.....</i>	<i>567.</i>	<i>767.</i>	<i>1334.</i>	<i>308.</i>	<i>298.</i>	<i>606.</i>	<i>1940.</i>

state in the Union except South Dakota and Wyoming. One hundred and fifty registrations were by students who had already received Master's degrees from the following institutions: Alabama Polytechnic Institute, Birmingham-Southern College, Boston University, Bucknell University, Columbia University, Duke University, Emory University, Erskine College, Florida State College for Women, George Peabody College, George Washington University, Harvard University, John B. Stetson University, Kansas State Teachers College, Louisiana State University, Middlebury College, Mills College, the University of Missouri, Northwestern University, N. C. State College, Oglethorpe University, Ohio State University, Oklahoma A. & M. College, Oklahoma University, Pennsylvania State College, Scarritt College, Southern Methodist University, Tulane University, the University of Alabama, the University of Chicago, the University of Florida, the University of Georgia, the University of Kentucky, the University of Michigan, the University of Mississippi, the University of Iowa, the University of New Hampshire, the University of North Carolina, the University of Pennsylvania, the University of Pittsburgh, the University of Puerto Rico, the University of South Carolina, the University of Tennessee, the University of Virginia, the University of West Virginia, the University of Wisconsin, the University of Washington, Vanderbilt University, Western Reserve University, and Wofford College.

Table IV shows the distribution by classes of Duke students and alumni attending the Summer School of 1938. This table counts as Seniors only those students who could complete graduation requirements by the end of the summer, and counts as Juniors all others who have completed three or more years of work; as Sophomores those who have completed two years; and as Freshmen those who have been one year at Duke. The number of Duke alumni and students who registered this summer is practically the same as in 1937, but there were about forty fewer Juniors and Seniors and a slight decrease in graduate students from the alumni, with an increase of approximately twenty-five each for the Freshmen and Sophomores. There were six students (three men and three women) the first term, and thirteen (ten men and three women) the second term who entered on the basis of their high-school diplomas.

TABLE IV  
DISTRIBUTION OF DUKE ALUMNI AND STUDENTS ENROLLED IN THE  
1938 SUMMER SCHOOLS

	<i>I</i>			<i>II</i>			<i>Grand Total</i>
	<i>Men</i>	<i>Women</i>	<i>Total</i>	<i>Men</i>	<i>Women</i>	<i>Total</i>	
Masters.....	21	5	26	8	2	10	36
Graduates.....	28	23	51	18	14	32	83
Seniors.....	39	15	54	27	2	29	83
Juniors.....	82	30	112	49	21	70	182
Sophomores.....	80	19	99	43	10	53	152
Freshmen.....	64	14	78	28	12	40	118
<i>Total.....</i>	314	106	420	173	61	234	654
Totals 1936 for comparison....	277	111	388	110	38	148	579*
Totals 1937 for comparison....	329	123	452	130	41	171	649

\*The totals for 1936 contain 32 men and 11 women, and the totals for 1937, 19 men and 7 women that were enrolled in the midsummer terms of those years.

Excluding the enrollment from professional schools the summer enrollments by states sending more than one hundred students each were North Carolina 713, as compared to 660 last year; Pennsylvania 468, as compared to 476; Florida and South Carolina, 292 each as compared to 253 and 215 respectively; West Virginia 286, as compared to 244; Georgia 224, as compared to 225; Virginia 159, as compared to 130; and Tennessee 134, as compared to 93. This is a compact group of eight neighboring states that furnish 80 per cent of our total enrollment in the graduate and undergraduate schools. The following states each contributed more than fifty students: Mississippi and New Jersey 99 each, as compared to 103 and 112 respectively last year; Ohio 86, as compared to 29; New York 84, as compared to 92; Kentucky 83, as compared to 55; Maryland 68, as compared to 56; Alabama 66, as com-

pared to 38. When the enrollments from these seven states are added to the enrollments from the first eight, we have a compact group of Middle Atlantic and Southeastern states that furnish 98 per cent of our enrollment in graduate and undergraduate schools of arts and sciences during the summer. Enrollments from other states, territories, and foreign countries were as follows: Arizona, 2; Arkansas, 13; California, 1; Colorado, 1; Connecticut, 1; Delaware, 1; District of Columbia, 11; Illinois, 12; Indiana, 2; Iowa, 2; Kansas, 5; Louisiana, 27; Maine, 2; Massachusetts, 11; Michigan, 8; Missouri, 22; Nebraska, 2; New Hampshire, 3; New Mexico, 2; North Dakota, 1; Oklahoma, 4; Texas, 15; Washington, 2; Wisconsin, 6; Puerto Rico, 2; Canada, 2; China, 4; Cuba, 3; England, 1; Japan, 2; and Korea, 2. North Carolina was represented by registrations from 83 counties of the 100. This was an increase of 5 counties, as compared to 1937, the representation for that year being the largest prior to 1938. Within the past five years 94 of the 100 counties of North Carolina have been represented in the Summer School. The enrollment included public school teachers from twenty-nine states, besides the District of Columbia, Cuba, and Puerto Rico. The number of registrations by states for public school teachers was in practically the same order of numerical superiority as the total enrollments in the schools of Arts and Sciences, as would have been expected in view of the large proportion of teachers represented in the enrollment.

The Summer School enrollment of 1938 included 370 men and 446 women who had attended at least one preceding term conducted by Duke University. The 816 students were principally those who were working toward degrees from the University. They had attended before this summer an average of more than two terms each. They represent an increasing number of former students who have returned summer after summer and include a number who are no longer working for degrees, but come simply to continue their associations with the Summer School and to take such work as attracts their interest. Some of them have been with the Summer School from an early date. There were two here the first term of 1938 who had enrolled in the 1919 Summer School, the first the University ever conducted. There were four from 1920, seven from 1921, four from 1922, three from 1923, and eight from 1924, and so on for the full twenty-year period, from every summer school ever held on the Duke campus. From the first term of the 1937 Summer School there returned 218 who enrolled for the first time last year, together with 285 more who had attended previously but who were here again in the 1937 Summer School. This increasing return of former students over the twenty years gives the Summer School a peculiarly continuing existence that perhaps no other unit of the University can show.

HOLLAND HOLTON,  
*Director of the Summer School.*

## THE UNIVERSITY LIBRARIES

*To the President of the University:*

I submit herewith the report of the University Libraries.

During the academic year there were acquired 41,548 additional volumes, bringing the total now in the several libraries to 529,140 volumes. This growth places the Library eighteenth in number of volumes among the university libraries of the country. The distribution of this increase among the several libraries of the University is displayed in the following table:

<i>Libraries</i>	<i>No. of Vols. June 30, 1937</i>	<i>Accessions 1937-38</i>	<i>No. of Vols. June 30, 1938</i>
General .....	367,305	31,082	398,387
Hospital .....	33,601	1,558	35,159
Law .....	53,728	4,058	57,786
Woman's College.....	32,958	4,850	37,808
<i>Totals</i> .....	<u>487,592</u>	<u>41,548</u>	<u>529,140</u>

In addition to the increase in the number of bound volumes there were 93,033 pieces added to the manuscript collection. Most of these represent additions to the George Washington Flowers Collection relating to the history and literature of the South. The Manuscript Division of the Library now contains 534,452 pieces. The total number of periodicals and newspapers regularly received is now 2,953. This represents an increase of 43 subscriptions over the previous year's report. Of these subscriptions 2,133 are received and displayed in the General Library; 340 in the Hospital Library; 240 in the Law Library; and 240 in the Woman's College Library.

The total expenditures for books, binding, and periodicals during the period of this report were \$135,695.88, an increase of \$1,448.40 over the previous year. These expenditures were divided among the several libraries as follows:

General Library.....	\$ 99,877.22
Hospital Library.....	8,371.51
Law Library.....	17,590.22
Woman's College Library.....	<u>9,856.93</u>
<i>Total</i> .....	<u>\$135,695.88</u>

The funds for the above expenditures were derived from the following sources:

Budget fund appropriated to the several libraries.....	\$ 81,711.59
Library fee funds.....	25,632.12
Income from endowed book funds.....	707.66
Contributions by friends.....	18,938.20
Grant by General Education Board.....	6,585.19
Appropriation of Division of Co-operation in Education and Race Relations.....	410.04
Summer School fund.....	<u>1,711.08</u>
<i>Total</i> .....	<u>\$135,695.88</u>



It is interesting to note from the above table that about 20 per cent of the total book expenditures, or 27 per cent of the expenditures of the General Library, were derived from grants and contributions, rather than from regular University income.

#### ACQUISITIONS OF SPECIAL INTEREST AND IMPORTANCE

The function of a university library, in addition to providing the materials used in course teaching, is to make available those books which are of importance for scientific and scholarly purposes. As tempting as are volumes of outstanding historical or sentimental value, these collectors' items must for the most part be foregone. Where these are needed for research investigations, reproductions by photographic or other means are sought, and only where for some reason these will not serve the purpose, or when the original can be secured about as economically, does the Library buy first editions and other collectors' items. This is our basic buying policy, though fortunately some of our friends have perceived that this is very largely a moralizing of necessity and have rewarded the display of virtue with gifts of many rare and beautiful volumes. Within the limits of this general program, however, there are secured from time to time volumes and sets which call for special mention and an exchange of congratulations. The following list will indicate something of the wealth of material acquired during the year as well as the range of the University's scholarly and scientific interests:

*Actualités scientifiques et industrielles*, 1929 to date.

An impressive collection of more than six hundred monographs by specialists in the fields of pure and applied science, edited and published by the firm of Hermann & Cie, Paris.

*Adventures in Americana*. (Catalogue of the library of Herschel V. Jones.) 2 vols.

An interesting catalogue in itself and a valuable contribution to the bibliography of America from 1492 to 1897.

American Philosophical Society. *Transactions*, Vol. I (1769) to date.

The American Philosophical Society, the oldest scientific association in the United States, is an outgrowth of the Junto founded in 1727 by Benjamin Franklin.

*Annales des sciences naturelles*, Series 1, 1824-33.

Established by A. T. Brongniart, who also founded and became the first president of the Société botanique de France in 1854. This series covers both botany and zoology.

*Archivio Veneto*, Vol. I (1871) to date.

A scholarly periodical devoted to the publication of original documents and critical studies dealing with the history of Venice.

*Bibliographie der deutschen Zeitschriftenliteratur*, 1896 to date.

The *Reader's Guide* to German periodicals.

*Briquet: Les filigranes*. 4 vols.

The standard descriptive catalogue of watermarks from the date of their first appearance about 1282 to the year 1600. Contains some sixteen thousand facsimile reproductions.



*Bulletin de l'École française d'Extrême Orient*, Vol. I (1901) to date.

The French School at Hanoi, French Indo-China, under the patronage of the Institut de France, conducts valuable research work in native art, history, and language.

*Catalogue of the Art Treasures of the Ten Great Temples of Nara*. 27 vols.

An imposing collection of reproductions of Japanese art. Nara was the capital of Japan from 709 to 784.

*Cokayne's Complete Peerage of England, Scotland, Ireland, Great Britain and the United Kingdom, extant, extinct or dormant*.

A new edition now complete to the letter N. "The most comprehensive of all works of this kind in the English language."

*Engler: Das Pflanzenreich*.

An encyclopedia of the entire plant kingdom, arranged according to the "Engler sequence," a classification that has been almost universally adopted by botanists.

*FF Communications*, Vol. I (1910) to date.

Edited for the Folklore Fellows and published by the Academy of Helsinki. Of the smaller countries, Finland has been notably active in the study of folklore.

Federal Writers' Project. American Guide Series.

When completed the series will cover the entire United States with special attention to centers of historic, cultural, and commercial importance.

*Gallia Christiana in provincias ecclesiasticas distributa*. 16 vols. 1716-1865.

A comprehensive register of ecclesiastical officers in Gaul and France from the beginning of the Church through the Middle Ages.

*Germanisch-romanische Monatsschrift*, Vol. I (1909) to date.

Devoted primarily to literature, this journal has published significant work in both the Germanic and the Romanic fields.

Godwin, William: *The Enquiry concerning Political Justice*, 1793.

The important first edition of this classic of philosophic radicalism.

*Household Words* (1850-59), continued as *All the Year Round* (1859-88).

Edited by Charles Dickens until his death in 1870. Many of his later works appeared in this journal.

*International Journal of Psychoanalysis*, Vol. I (1920) to date.

One of the three important journals of the original psychoanalytic movement. The other two are *Imago* and *Internationale Zeitschrift für Psychoanalyse*.

*Inventories of Historical Monuments of Great Britain*. (Issued by the Royal Commission on Historical Monuments.)

This work constitutes a model scientific archaeological survey. To date the following sections have been published: Essex, London, Huntingdonshire, Buckinghamshire, Herefordshire, Westmoreland.

*Journal des savants*, 1816 to date.

First founded in 1665 under the title *Journal des sçavans*, this French journal is acknowledged to be the parent of modern scholarly periodical literature. The value of this long file is obvious.

*Journal des tribunaux mixtes, bulletin d'informations judiciaires*, Year 1 (1921) to date.

The weekly reports of the Mixed Courts or International Tribunals of Egypt, which have jurisdiction in all civil matters between Egyptians and foreigners and between foreigners of different nationalities. These reports are of prime importance in the study of international law.

*Kayser's Handbuch der Spectroskopie.*

A standard work in eight volumes, giving a comprehensive survey and full bibliographies. Its publication was interrupted at the end of Volume VI by the World War, but was resumed later.

*Literarische Berichte der deutschen philosophischen Gesellschaft*, Vol. I (1923) to date.

A well-arranged current bibliography of German publications in philosophy.

*The Little Guides to English Counties.* 58 vols.

A separate volume for each county. The mass of local detail they contain makes them invaluable in the study of English history, literature, architecture, biography, etc.

*Neue Jahrbücher für Philologie und Paedagogik*, Vol. I (1826) to date.

An annual publication exhibiting the progress of philological investigation and scientific pedagogy, particularly in Germany.

*Nouvelles annales de mathématique*, Vol. I (1824) to LXXXIX (1927).

Issued by the candidates at the French École Normale and École Polytechnique. Discontinued in 1927.

*Palmer's Index to the Times.* 1790-1905.

Indexes the contents of the London *Times* from 1790 on. The Official Index to the *Times* began to appear in 1906.

Palaeographical Society and New Palaeographical Society. Facsimiles of Ancient Manuscripts.

This project of reproducing miscellaneous manuscripts of special importance from the British Museum collection was initiated by Sir Edward Bond, who is recognized as the first to make classical palaeography an exact science. Nine folio volumes have been issued to date.

*Prace matematyczno-fizyczne*, Vol. I (1842) to date.

The important Polish mathematical journal. The text, however, is in English, French, or German.

*Propyläen-Weltgeschichte.* 11 vols.

A companion set to the *Propyläen-Kunstgeschichte* published by the famous Propyläen Verlag of Berlin.

*Revue internationale de sociologie*, Vol. I (1893) to date.

Published at Paris under the direction of the Institut international de sociologie with the collaboration of scholars from all the principal countries of the world.

Royal Society of London. *Catalogue of Scientific Papers*, 1800-1900.

"A monumental index of the first importance." An indispensable guide to the scientific literature of the nineteenth century as it appears in some fifteen hundred periodicals and the transactions of academies and learned societies.

Société de l'histoire de France. *Annuaire-Bulletin*, 1863 to date.

Founded at the time of Guizot's revival of the Académie des sciences morales et politiques, the Société de l'histoire de France has directed the publication of a vast number of medieval chronicles and historical papers at state expense.

Society of Antiquaries of London. *Proceedings*, 1843-1920.

Contains numerous brief papers on archaeological finds in Great Britain. The *Proceedings* were superseded in 1921 by the *Antiquaries Journal*.

*Zeitschrift für induktive Abstammungs- und Vererbungslehre*, Vol. I (1908) to date.

The most valuable and significant periodical publication for the study of heredity. Contributions by English, French, and German scientists.

Fourier and Fourierism. A collection of about 850 items (books, pamphlets, periodicals, newspapers, manuscripts).

A basic collection of source material and critical works for the study of the socialistic doctrines of Fourier (1772-1837) and the movement embodying them that flourished in the second quarter of the nineteenth century. Of particular interest is a complete file of the newspaper *Le Phalanstère* and its successors, *La reforme industrielle* and *La phalange*.

Fourier's scheme of co-operative communities (*phalanges*) was actually put into practice at various places, though with but little success. His doctrines were introduced into America after his death by Albert Brisbane; and no fewer than forty-one phalanges were founded here, though records of some of them are difficult to find. The most notable one was Brook Farm at West Roxbury, Mass.

Nineteenth-century English drama. A collection of about thirty-six hundred plays as collected by Mr. Percival H. Hinton of England.

This impressive and representative collection offers a complete picture of the English theater from the beginning to the end of the nineteenth century. It also presents an interesting field for research, since many of these items do not appear in the bibliographies of plays of this period. Many of the plays are the prompt copies used in actual production, with interesting marginal notes and directions.

#### MANUSCRIPTS, NEWSPAPERS, AND THE FLOWERS COLLECTION

The growth of the manuscript collection of the Library can never be discussed apart from that of the George Washington Flowers Collection, since most of the half million manuscripts in the Library belong to this Collection, the gift of the sons and daughter of Colonel Flowers in memory of their father. All periods of Southern history are included in the newspapers, books, pamphlets, broadsides, and other records of Southern life and culture which make up this Collection.

Since the Manuscript Department acquired during the past year 93,033 items, it is impossible to give a list even of the most important acquisitions. A few items, however, are of such interest as to warrant mention. Of North Carolina material special mention should be made of 1,890 additions to the letters and papers of Samuel Simpson Biddle, a merchant and trader from New Bern, North Carolina, 1786-1885, and an important member of the Whig party. Four pieces bear the rare signature of Richard Caswell, the Revolutionary patriot. About 90 letters and papers of Henry Toole Clark, Civil War governor of North Carolina, and 2,074 letters of Samuel F. Mordecai, lawyer of North Carolina, 1761-1891, were added. The latter material furnishes a rare picture of a closely knit Jewish family of the Old South. From Western North Carolina we secured some 2,700 letters and papers of William Holland Thomas, 1828-1874, who was for many years agent for the Cherokee Indians, and nearly 300 letters of the Alfred W. Bell family, most of which were written during the war. This material throws new light on a portion of the state's history that has never been unraveled.

Of South Carolina material the most important acquisition has been that of nearly two thousand letters and papers of Louis Manigault, rice planter of Charleston, South Carolina, 1808-1901. These manuscripts are very valuable for the study of the history of the rice indus-

try in South Carolina—a subject on which there has been no adequate history written because of the paucity of material—as well as for the more general field of the social and economic history of the century.

Of Georgiana the largest collection is that of Charles Colcock Jones, Jr., lawyer and historian of Augusta, Ga., 1864-1894. He was a collector himself, especially of manuscripts, and at the time of his death he must have had one of the largest private collections in the South. In this collection is a unique volume containing letters and portraits of all the signers of the Confederate Constitution. There are also letters of most of the early governors of Georgia and of leaders of the Civil War period. Letters written to Davis from Lee, Joseph E. Johnston, Bragg, Beauregard, and others were added during the year. A number of these letters are long and were written during some of the most critical periods of the Confederacy. One of the volumes in the collection includes autographed letters of all the members of the Georgia Secession Convention. An unusual piece is a petition from the freemen of Savannah, 1865, containing a bitter denunciation of President Johnson.

From Virginia come letters and papers (4,025 pieces) of the Dismal Swamp Land Company, 1783-1878, of Virginia, which supply the basis for a history of that drawn-out enterprise with which at one time or another George Washington and other prominent Virginians were connected; account books (19 volumes) of Duff Green, merchant, manufacturer, and politician of Falmouth, Va., 1838-1876; letters and papers (33,255 pieces) of John R. Kilby, lawyer, Suffolk, Va., 1770-1899; letters (40 pieces) of Robert Lawson, Revolutionary general; letters (66 pieces) of Mary Virginia Terhune, authoress, Richmond, Va., 1848-1913. Interesting both for Virginia and North Carolina is a volume containing about 75 manuscript letters of Hiram Haines, a Virginia newspaperman who toured North Carolina about 1827 and who wrote long and interesting accounts to his young bride in Virginia of what he saw in Raleigh, Oxford, Fayetteville, Hillsboro, etc.

Of printed books and pamphlets, the material is too numerous and varied even to describe in the brief compass of this report. Among many volumes of special interest might be mentioned William Bullick's *Virginia Impartially Examined, and left to publick view . . .* (London, 1649), the first edition of a volume written to attract settlers to the colony. Almost as rare is *A New Collection of Voyages and Travels with Historical Accounts of discoveries and conquests in all parts of the world* (London, 1708). Among the additions to the periodical files have been such scarce items as the *Virginia Evangelical and Literary Magazine* (Vol. I, 1818); the *Southern Medical and Surgical Journal*; the *Southern Botanico-Medical Journal*, Vol. I (Forsyth, Ga., 1841); the *Calvinistic Magazine* (Nashville, 1830); the *Ladies Pearl* (Nashville and St. Louis); and the *Farmer's Advocate*, Vol. III, No. 1 (Jamestown, N. C., 1841).

These additions bring the total number of manuscripts in the Library to 534,452 pieces. The significance of such a collection for the study of Southern history and culture needs no elaboration.



The Newspaper Department has continued to receive and to preserve the 74 current subscriptions. Excluding duplicates, 30 of these are Southern papers, 19 domestic ones outside the South, and 22 important foreign papers. In addition to these current papers there were added to the Flowers Collection a number of files which add to or supplement the rich holdings of the Library of this character. Among the more important items added were the following:

*Sumter Republican*. Americus, Ga., 1854-1887.  
*Protestant and Herald*. Bardstown, Ky., 1840-1847.  
*United States Chronicle*. Washington, D. C., 1827-1837.  
*Federal Gazette and Baltimore Daily Advertiser*. Baltimore, Md., 1797 and 1805.  
*Liberator*. Boston, Mass., 1834-1847.  
*Mississippian and State Gazette*. Jackson, Miss., 1855.  
*Daily Journal*. Wilmington, N. C., 1871-1873.  
*Charleston Observer*. Charleston, S. C., 1834-1845.  
*City Gazette and Daily Advertiser*. Charleston, S. C., 1799.  
*Watchman of the South*. Richmond, Va., 1839-1851.  
*The Progress*. Union, S. C., 1900-1925.  
*The Crisis*. Columbus, Ohio., 1861-1863, 1865. (Of special interest because, though published in Ohio, it had Southern sympathies.)

The newspaper collection of the Duke Library now contains about nine thousand volumes. It is the more valuable in that no other library in the South has attempted to collect this material on anything like a comparable scale. The collection is an expensive one, due to the cost of binding and housing the large newspaper volumes. We believe, however, that it more than justifies the cost involved.

#### CO-OPERATION WITH THE UNIVERSITY OF NORTH CAROLINA

The program of co-operation between the libraries of Duke University and of the University of North Carolina has attracted so much attention and brings so many questions that it is well to refer to its progress, even though no radical changes have been made. The program is now in its third year and has passed beyond the stage of experimentation into that of settled policy. The plan is as simple as it is effective, the maintenance in each library of a catalogue of the holdings of the other, and the operation of a daily delivery service between the two libraries. The duplication of expensive items is thus avoided, and the contents of both libraries made available to each academic community. Subsidiary aspects of the program are a division of collecting responsibility in a number of fields, particularly those of public documents and of college and university publications; correlation of current periodical subscription lists; and the availability of facilities and equipment in each library to the staff of the other. To illustrate the last point, a member of the Duke Library is sent twice a week or more to make use of the bibliographical data provided by the Library of Congress depository catalogue in the University of North Carolina Library.

Two problems have developed in connection with this program. One is the need of a system of notification of orders sent out as well as of books catalogued so as to avoid simultaneous purchase of expensive new

materials. This involves no serious complications and can no doubt be worked out. The other is more difficult. Repeated requests have arisen on one campus for materials which for one reason or another should be located in the other library. The most frequent situation of this sort is the need for a periodical file or set where a portion of it already exists in the other library. Funds in both libraries, however, are so fully committed that only rarely can they be diverted to supply materials needed on the other campus. The future of the co-operative program would be assured if there were available an endowment fund of \$50,000 in each library, the proceeds of which would provide for requests arising from the other campus.

#### INTER-LIBRARY LOANS

Among the most interesting figures which come forward for annual review are those of loans to and borrowings from other libraries. The former figure indicates the service the Library is rendering directly to other institutions, the latter the degree to which it is supplementing its own resources to aid special studies of faculty and graduate students. The figures for the year are:

Books loaned to other libraries.....	1,658
Books borrowed from other libraries.....	1,696

In former years the excess of books borrowed over books loaned has been pronounced; the virtual balance in the present year is to be attributed probably to the constant improvement in the University's library resources, along with greater demands upon it as its collections become richer and better known. This loan service is one which would seem to be especially incumbent upon us, located as we are in the most impoverished section of the United States so far as book resources are concerned.\*

#### CLEARING UP ACCUMULATIONS

As a special addition to the regular library budget, a sum of money was allotted by the Treasurer to enable the Library to clear up and put in order the accumulations which during the past seven-year surge of acquisition have been stored "temporarily" in various places in the building. Most of the bookstack has now been restored to its original purpose; likewise, two basement rooms formerly full of boxes and piles of pamphlets are now free for their original uses: one as a smoking room for men students, the other (equipped now with steel shelving) as a bookstack.

The unsalable duplicate volumes have been presented to institutions so far as possible. One particularly noteworthy instance was the gift of 39 packing-cases, full of duplicate documents (the remainder of the lot shipments obtained from other institutions some years ago) sent to the Library of Fisk University at Nashville as the contribution of Duke University to the building up of a collection for the use of Negro students in the South.

\* See Louis R. Wilson, *The Geography of Reading* (Chicago, Ill., 1937).



As a corollary to putting the Library in order physically, the Order Department and the Catalogue Department were also cleared of their accumulated work, and the Library's mechanisms for ordering and getting the volume ready for use were improved and speeded up. While the housecleaning of material and the changing of routines have not always swept clean, they have resulted in bringing order out of past accumulations and in unearthing a number of major and minor administrative problems.

### THE USE OF THE LIBRARIES

No complete figures of the use of the books of the Library will probably ever be secured, since so many volumes will always be on open shelves. Comparisons of circulation figures between libraries therefore are very precarious, but such figures are of use in comparing in one institution one year's work with another's. Such a comparison for the Duke Libraries shows a marked increase of use over the previous year. The following table shows that this increase is general throughout the system, rather than due to any one unit:

	<i>Volumes Borrowed</i>	
	<i>1936-37</i>	<i>1937-38</i>
General Library		
Main Circulation Desk.....	79,885	100,098
Undergraduate Reserve—Outside Building (No records in room due to open shelves.).....	41,325	34,335
Graduate Reading Room—Outside Building.....	12,581	14,024
School of Religion—Outside Building.....	24,865	28,391
<i>Total, General Library.....</i>	<i>158,656</i>	<i>176,848</i>
Woman's College Library		
Two Weeks Loans.....	43,986	77,665
Reserve Shelves .....	66,013	39,212
Law Library		
Outside Building .....	8,386	8,100
Inside Building .....	8,377	10,309
<i>Total Recorded Circulation*.....</i>	<i>285,418</i>	<i>312,134</i>

It is of interest to compare this increase with the comparable figure for the previous year, and to relate both to the figures for student enrollment.

	Total Enrollment**	Per Cent Increase in Enrollment	Total Recorded Circulation	Per Cent Increase in Circulation
1935-36 .....	3,680		284,561	
1936-37 .....	3,776	2.6	285,418	.3
1937-38 .....	3,845	1.8	312,134	9.4

These figures reveal that in 1936-37 the circulation did not increase in proportion to the increase in student enrollment, but that in 1937-38 it exceeded this increase markedly. While such an indication, like measures of the state of business activity, are not final when taken alone,

\* No record of circulation kept in Hospital Library.

\*\* The number of summer school students was equated to an annual basis by dividing by six, since the summer session of six weeks is one sixth of the regular academic year, and added to the numbers of the regular enrollment to give the total enrollment.

this must be regarded as one of the most encouraging aspects of the year's work as seen from the vantage point of the Library.

#### THE LIBRARY AND THE UNDERGRADUATE

During the course of the year the Director of Libraries was on leave of absence to make a study of college libraries for the Association of American Colleges. The study made it necessary to visit most of the important college libraries of the country and yielded a broad view of library activities and programs. One danger seemed clearly observable in a number of institutions, that is, that the undergraduate is neglected due to the emphasis placed on graduate work and research studies. In those institutions with large enrollments and large book collections the mass problem tends to result in a mechanized library service which effectively removes the books from the undergraduates rather than brings the two together. The danger is the more insidious since the argument of economy and administrative efficiency is undoubtedly on the side of the completely centralized, highly mechanized service. A library has value, however, only to the extent that it is used and the criterion of use rather than efficiency should be finally determinative. It is interesting to note that a number of the larger endowed institutions have set up smaller undergraduate libraries in halls of residence in order to give undergraduates that direct, easy access to a reasonable number of books which cannot be supplied in the central library.

So far as the undergraduate women in our institution are concerned, this problem does not exist, since the Woman's College Library provides just such a collection as has been referred to above. The danger here is that this library will expand too rapidly, thus sacrificing its real advantages in an effort to provide books which will be used only infrequently. Such books should be provided only once on the campus, namely, in the General Library, and used either there by women students or loaned temporarily to the Woman's College Library. The General Library, however, with its complex problems of faculty research, graduate students, and a crowded building has difficulty in providing adequately for undergraduates. Two moves to overcome this have been made with considerable success. The undergraduate reserve books have been placed on open shelves, giving students direct contact with some four or five thousand selected volumes. During the last year all Seniors were notified that those who wished the privilege would be given stack permits. About half the class availed themselves of the privilege. Further steps looking in the direction of a freer and fuller use of the Library are under consideration. These include extension of the stack-permit privilege, creation of a Freshman-Sophomore open stack library, freer regulations for the use of many books placed on reserve, the encouragement of fraternity and other student group libraries and a reduction in the schedule of fines. In the meanwhile the experiments of other institutions in house or college libraries will be watched with the greatest interest.

## THE FRIENDS OF DUKE UNIVERSITY LIBRARY

The Friends of the Library continues its effective support. The roll now contains some six hundred names. Many volumes were contributed during the year and a number of checks. The annual dinner meeting was held in February, at which time Mr. Carl Van Doren, the guest speaker, gave those present some advance glimpses into the contents of his biography of Benjamin Franklin which has since appeared. It has seemed best to modify the general plan by which this organization is carried on. Instead of an annual request for a volume or the cost of the same, members will in the future be left freer to aid the Library as they may wish. Suggestions and requests to meet particular needs will be made from time to time by the Library. The reason for this change is not the failure of the membership to respond to the annual call, but rather certain complications arising from the one volume per year plan, particularly in the case of our more generous friends. Some members will prefer to continue to contribute one volume per year, others to make larger contributions from time to time for specific purposes. This somewhat freer program will enable the Library to direct the support of its friends to the points of greatest need, and will relieve many of them of the annoyance of an annual collection.

## IN MEMORIAM

Though there is much to record of progress and enrichment for the year, there must be set over against these the loss which the Libraries have sustained in the death of Dr. W. K. Boyd, for many years Chairman of the Library Committee of Trinity College and the first Director of the University Libraries. Dr. Boyd's services to the Library and to the many other aspects of the University with which he was related have been recorded elsewhere and need not be repeated here. No review of the year, however, can be made without expressing again the feeling of irreparable loss which is felt by all those connected with or interested in the Library. In the enlarged building more adequate space must be provided for the manuscript and rare book collections, and in these quarters there should be placed a tablet which will continually remind reader and visitor how much of that which they will see is the result of his vision and energy.

HARVIE BRANSCOMB,  
*Director of Libraries.*

## THE UNIVERSITY PRESS

### *To the President of the University:*

The activities of the Duke University Press showed substantial increase during the year 1937-38, both in relation to its publication of books and of periodicals. While no new periodical was established during this period, the circulation of the existing ones showed a pleasing increase, while in the field of scholarly books several volumes of exceptional merit were either issued or definitely placed in process of publication. The approach of the Centennial Year stimulated activity in this field, not only in the preparation for publication of volumes relating to the history of Duke University and its antecedents, but also of books in a number of different fields of scholarship and research. The following data bearing on these points are taken from the detailed report submitted by Dr. R. O. Rivera, Executive Secretary of the Press.

During the year 1937-38 the Press published the following books and monographs:

*Journal of a Cruise to the Pacific Ocean, 1842-1844, in the Frigate "United States," with Notes on Herman Melville*, edited by Charles R. Anderson.

*Axial Bifurcation in Serpents*, by Bert Cunningham.

*John Carlisle Kilgo, President of Trinity College, 1894-1910*, by Paul Neff Garber.

*Machiavelli's "Prince" and Its Forerunners*, by Allan H. Gilbert.

*Church-State Relationships in Education in North Carolina Since 1776*, by Luther L. Gobbel.

*Minutes of the Proceedings of the Greenville Ladies' Association in Aid of the Volunteers of the Confederate Army*, by James W. Patton.

*Variability in Results from New-Type Achievement Tests*, by Earl V. Pullias.

*The Tobacco Kingdom—Plantation, Market, and Factory in Virginia and North Carolina, 1800-1860*, by Joseph Clarke Robert.

*A Gentleman of the Old Natchez Region: Benjamin L. C. Wailes*, by Charles S. Sydnor.

*The Unextinguished Hearth: Shelley and His Contemporary Critics*, by Newman I. White.

In the process of publication or approved were the following:

*Personal Recollections of Trinity College, 1887-94*, by John Franklin Crowell.

*Learning as Reorganization: An Experimental Study in Third-Grade Arithmetic*, by W. A. Brownell, et al.

*Life of Braxton Craven*, by Jerome Dowd.

*The Small Town in American Literature*, by Ima H. Herron.

*In Memoriam—William Kenneth Boyd*, by W. T. Laprade, et al.

*The Polish Penal Code of 1932*, translated by Lemkin and McDermott.

*A Comparative Study of the Systems of Lewin and Koffka with Special Reference to Memory Phenomena*, by Sylvia H. MacColl.

*France Faces Depopulation*, by Joseph J. Spengler.

*Minor Mental Maladjustments in Normal People*, by J. E. W. Wallin.

*Savings Banks in New York State*, by Weldon Welfling.

The announcement of the Duke University Centennial Prize of \$1,500 to be granted for a scholarly manuscript in the social, literary, or artistic history of the United States was widely circulated by direct mail and by announcements in our own periodicals and the *New York Times* and *The Saturday Review of Literature*. Moreover, newspapers and magazines from coast to coast gave the announcement much publicity. The prize will be awarded in March, 1939.

This year more reviews of our books have been received than in any year to date. This fact may indicate either that the books are attracting more and wider attention or that better care is exercised in selecting the review media. It may well be the result of a combination of both.

The circulation of our periodicals has steadily increased since 1934. Most notable increases have been those of *American Literature* and *Hispanic American Historical Review*, but the other journals have notably augmented their subscription lists. There has been in consequence a reduction in the amount the University has found it necessary to appropriate from year to year for these publications.

During the year under consideration substantial progress was made in the effort to promote substantially the sale of University Press books. The Duke University Press engaged in a program of co-operation with a number of other similar organizations, and encouraging results were achieved.

The constant expansion of the activities of the Press again calls attention to the need of larger quarters for its operations. It is to be hoped that some plan to this end may be evolved in the near future.

HENRY R. DWIRE,  
*Director.*



## THE UNIVERSITY COUNCIL ON RESEARCH

### *To the President of the University:*

The report of the University Council on Research for the period beginning July 1, 1937, and ending June 30, 1938, is submitted herewith. Appended to this is a list of the scholarly publications appearing under the names of the members of the faculties of the different schools of the University during this period. This list continues similar lists appended to your earlier reports.

During the academic year 1937-38 a number of changes have been made in the membership of the Council. The list of members follows: H. B. Branscomb, W. H. Glasson, P. M. Gross, F. M. Hanes, C. B. Hoover, H. C. Horack, Wm. McDougall, A. S. Pearse, D. T. Smith, R. H. Shryock, J. M. Thomas, and N. I. White.

The following officers were elected at a meeting in September, 1937: P. M. Gross, Chairman; C. B. Hoover, Secretary; and A. S. Pearse, D. T. Smith, and N. I. White as members of the Executive Committee. The co-operation of the administrative officers of the University made possible the assignment in the spring of 1937, of a budget of \$25,000 to the Research Council for the year 1937-38. Eighty-five grants were made to members of the Faculty from this budget at a meeting of the Council held in May, 1937.

During this, our Centennial Year, it is perhaps well to attempt to assess our position with respect to research in the University. The fourth year of operation of the research program of the University under the general guidance of the Research Council has just been completed. During these four years the central funds available to the Council for allotment for research grants have increased from \$12,000 per year to \$25,000 per year. The provision of grants from these central funds has operated to attract additional support for research from sources both within and without the University. The resultant aggregate expenditure on research annually has been between two and three times the amounts available in the central fund.

During the four years since its establishment the University Research Council appears to have been an effective type of organization for the administration of these funds on the project basis of allotment that has been developed. Some measure of this effectiveness may be seen from the following tabulation showing the increase in number of publications from the University during this period.

#### NUMBER OF PUBLICATIONS

	1934-35	1935-36	1936-37	1937-38
Arts and Sciences.....	118	143	174	187
Medicine .....	35	66	91	109
<i>Totals</i> .....	153	209	265	296



While the increase in the number of publications is of course not necessarily of significance as a criterion of the worth and quality of our research, nor is it to be attributed entirely to the activities of the Research Council, nevertheless, it is, we believe a fair indication of the stimulation of interest in and growth of research activity in the University during this period. This has been especially true of medical research.

This progress is gratifying, and there is much promise in our present situation as we have stimulated wide interest in research among our Faculty, and many significant lines of investigation have been developing in the various schools and departments of the University. Whether this very real promise will be realized in the future rests largely on the possibility of obtaining increasing financial support for research.

An important aspect of our research activities is that relating to the Southern region. During the past year somewhat over half of the University Research Fund was allotted to the support of projects in the sciences, the social sciences and medicine which bear either directly or by implication on various problems of significance for Southern development. Thus while the stipulation in the original deed of gift that Duke University serve the region in which it is located has not been lost sight of, much remains to be done. The power of the research, scholarship, and leadership within the University should be focused more strongly than ever before on the urgent needs of the Southern region. This can be most effectively accomplished by the establishment of a fund for Southern regional research which would make available annually a sum from two to three times larger than that in the present University Research Fund. Such a procedure would provide annually sums several times larger than at present for research on Southern problems. All of the present fund would thus be released for much needed increases of the present allotments to the humanities, social sciences, and sciences for research of broader types that might not necessarily have implication for regional development. It seems desirable that the expansion of our research program should take some such general direction as here outlined.

Turning from these general aspects of research at the University, we may, as has been customary, note certain among the publications of the Faculty of the School of Arts and Sciences that have appeared during the year just past. In the sciences there may be mentioned a number of articles on infrared spectroscopy by Dr. L. F. Bonner, the appearance of a comprehensive monograph describing the fauna of the caves of Yucatan under the editorship of Professor A. S. Pearse, several articles by Professor W. C. Vosburgh on equilibria in complex aqueous salt systems, and a new interpretation of some of the data of cosmic radiation by Professor L. W. Nordheim.

In the field of the social sciences we may note several articles on international law by Professor R. R. Wilson, the publication of a history of social philosophy by Professor C. A. Ellwood, and several articles

by Dr. S. T. McCloy on governmental welfare projects in eighteenth-century France.

Among the publications from the humanities may be mentioned the publication by our press of a book by Professor N. I. White on Shelley and his contemporary critics, and also that of a study of Machiavelli's *Prince* and its forerunners by Professor A. H. Gilbert.

PAUL GROSS, *Chairman of the  
University Council on Research.*

PUBLICATIONS OF THE MEMBERS OF THE FACULTIES OF THE  
GRADUATE SCHOOL OF ARTS AND SCIENCES AND OF THE  
UNDERGRADUATE COLLEGES OF DUKE UNIVERSITY  
IN THE PERIOD OF JULY 1, 1937 TO JUNE 30, 1938

ADAMS, DONALD K. Psychology.

"Recherches sur la Comparaison Successive avec Grandes Differences chez les Rats," *Journal of Psychology*, XXXIV, 532-553 (1937).

\*ALLEN, D. C. English.

"Marlowe's Tamburlaine," *London Times Literary Supplement*, (Sept. 24, 1931).

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## DEPARTMENT OF PUBLIC RELATIONS AND ALUMNI AFFAIRS

### *To the President of the University:*

The year 1937-38 was one of the busiest in the entire history of the department. This was due partly to the normal growth of its activities and partly to the increased demands made by preparations for the Centennial Year. For this reason a slight increase in personnel was necessary. Again the matter of limited space presented a problem, though there is reason to expect that this condition may be remedied in the near future.

I would again direct attention to the fine spirit of co-operation that has been constantly evidenced by the entire personnel of the department in both of its divisions, Public Relations and Alumni Affairs. The heavy demands made by the increasing volume of work have been met in a most encouraging manner.

### DIVISION OF PUBLIC RELATIONS

The activities of the University News Service were increased, and the number of publications with which we keep in constant contact was enlarged, particularly in preparation for the demands in connection with Centennial publicity; the same was true in the field of miscellaneous publicity, including the supplying of photographs and motion pictures for various purposes. The use of the latter was expanded in a rather notable way.

The Publications Bureau, which has charge of the publication and distribution of catalogues and other University bulletins, found it necessary again to increase its mailing facilities. Approximately three-quarters of a million separate pieces of mail were handled. The volume of miscellaneous correspondence asking for information about Duke University, from North Carolina and other states and even from other countries, reached a new high point.

The Appointments Office, which is particularly concerned with the matter of bringing Seniors and graduates in touch with desirable openings in the fields both of teaching and commercial positions, was placed upon a full-time basis during the year, with Mr. James R. Simpson, formerly Assistant Director of Alumni Affairs, in charge as director. The results achieved already have been such as to justify this move in a definite way.

During the year the University Speakers' Bureau was expanded and a directory compiled containing the names of faculty speakers available for occasions of various kinds, the subjects discussed by them and the particular time at which they are most readily available. The constant increase in calls from the outside for speakers for commencements, conventions, civic club meetings and other occasions has pre-



sented quite a problem, but members of the Faculty and Administration of the University have exhibited a most gratifying spirit of co-operation in the endeavor to meet these demands. During the year more than fifty members of the teaching and administrative staffs assisted in this work.

The Division of Public Relations had a busy year in the matter of co-operating in the entertainment of visiting groups on the campus. A number of learned societies and other groups held their meetings at the University, and every effort was made to be of all possible assistance in the arrangements for such gatherings.

The University Information Service answered more than one hundred thousand calls for information and allied services during 1937-38. Members of the Faculty and student body as well as individuals off the campus are using this service more and more each year. The Weekly Calendar of University Events was again a popular feature of the Information Service. The use of the Division of Public Relations as a kind of clearing-house for all kinds of University information is becoming more general all the time.

Supplementary service was rendered along different lines, including the handling of matters pertaining to the use of the University Union as a social and recreational center. Considerable additional space could be used for such purposes if it were available.

#### DIVISION OF ALUMNI AFFAIRS

As indicated at the beginning of this report, much of the time of the division was devoted to matters pertaining to preparations for the Centennial. The Alumni and Alumnae Councils endorsed a proposal to direct the attention of former students particularly to the subject of scholarships in connection with the service to be rendered by them in the Centennial period. Much matter relating to this subject was published in the *Register* and disseminated in other ways.

A survey was made of opportunities for the organization of new alumni groups, and three additional local organizations were perfected during the year. The number of annual meetings held by local alumni groups again showed an increase. More than thirty local associations held spring as well as fall meetings. Several local alumni associations inaugurated the plan of holding monthly or semimonthly, and in two cases weekly, luncheons or similar meetings. Further progress was made in the matter of maintaining all-the-year programs of alumni activities. A number of classes and local groups were definitely engaged in the raising of scholarship funds.

Some progress was made in the effort to keep constantly in touch with the undergraduates, our future alumni. Every opportunity was used to maintain contacts with them and to render any possible service. Representatives of the department presented its work at class meetings during the year.

The Division of Alumni Affairs again rendered assistance in matters pertaining to athletics, especially by aiding in the sale of tickets for the football games and in alumni publicity for various athletic contests.

A new high point was reached in the registration of alumni on Homecoming Day in October and of alumnae on May Day, which is always observed particularly as Alumnae Homecoming Day; the registration of alumni at Commencement also established a new record; numerous calls from alumni groups for the Duke motion pictures, both in connection with annual meetings and at other times, were supplied; a record volume of correspondence with alumni was handled; the *Alumni Register* had a satisfactory year with a constantly increasing number of readers and evidence of greater appreciation by former students of this publication; sales of the Duke University Commemorative Plates continued at a satisfactory rate, and substantial addition was made to the Alumni Scholarship Fund from this source.

Members of the Alumni Office staff were able to make more visits to local associations during the year than ever before. A constant effort is being made to expand this type of personal contact.

The distribution of Duke alumni as of June 30, 1938, was as follows:

Alumnae in North Carolina.....	1,813
Alumni in North Carolina.....	4,440
Total Alumnae and Alumni in North Carolina.....	6,253
Alumnae out of State.....	1,284
Alumni out of State.....	3,674
Total Alumnae and Alumni out of State.....	4,958
Alumnae in Foreign Countries.....	26
Alumni in Foreign Countries.....	102
Total Alumnae and Alumni in Foreign Countries....	128
Total Alumnae.....	3,123
Total Alumni.....	8,216
Total Alumnae and Alumni.....	11,339

There are alumni in every county in North Carolina except one (Clay) and in every state except one (Wyoming). There are alumni in twenty-five foreign countries. Approximately 4,683 changes in address are made in the Alumni Office each year.

Substantial progress was made in the development of alumni interest and the expansion of contacts during the year, but much more remains to be done along this line. It is hoped and expected that the activities of the Centennial Year will be of particular benefit in that connection.

HENRY R. DWIRE,

*Director of Public Relations and Alumni Affairs.*



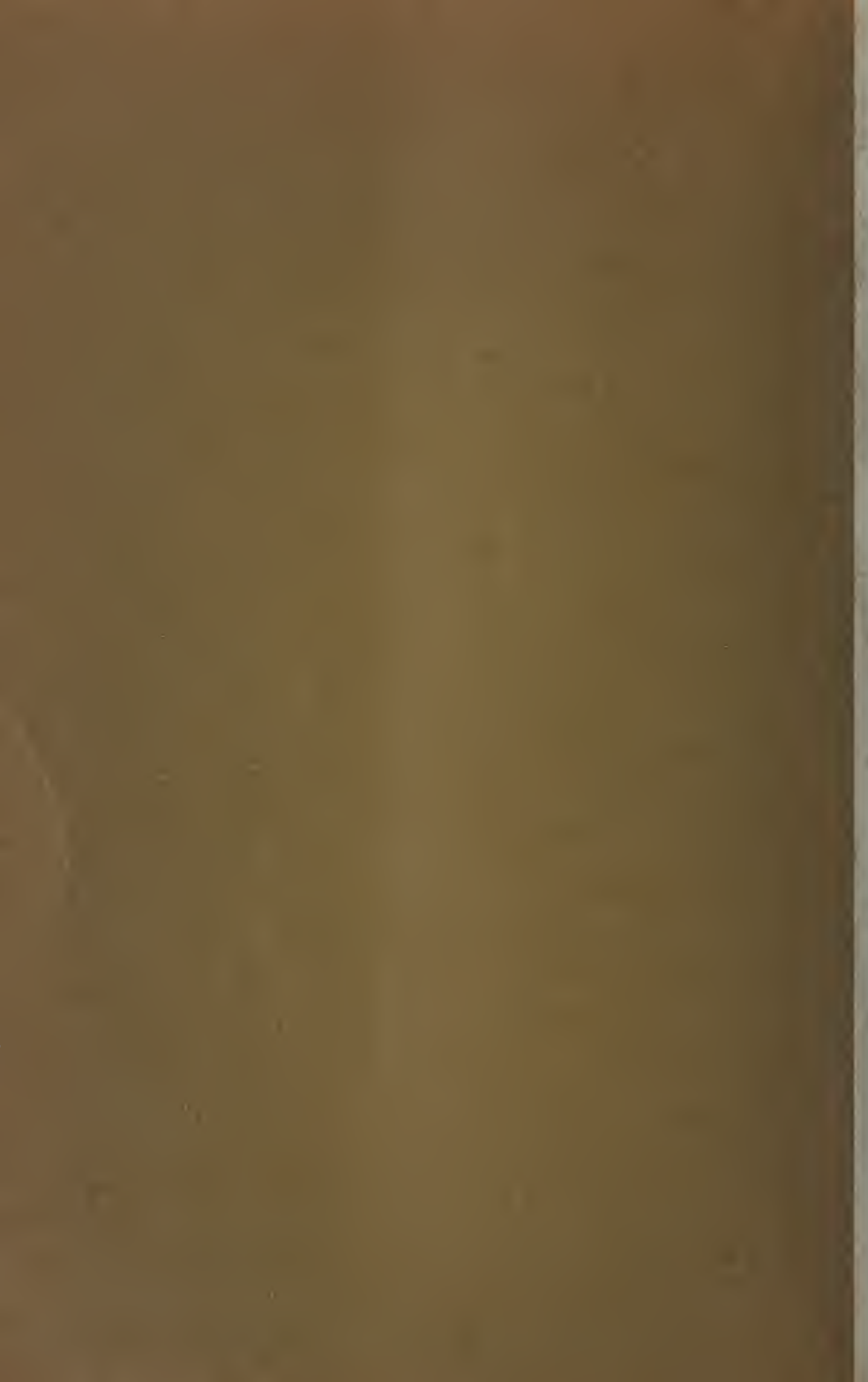
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VOLUME 11

March, 1939

NUMBER 3-B

# BULLETIN OF DUKE UNIVERSITY

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*Engineering*



1938-1939

ANNOUNCEMENTS FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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Published by Duke University monthly except in September and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY



ENGINEERING

1938-1939

ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA  
1939





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## UNIVERSITY CALENDAR

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1939

- June 12. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 12. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Tuesday, Independence Day: a holiday.
- July 21-22. Friday, Saturday—Final examinations for Summer School, first term.
- July 24. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 24. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 1-2. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 14. Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 14. Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 19. Tuesday—Freshman instruction begins.
- Sept. 19. Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 20. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 21. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 21-23. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 30. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Monday—Duke University Day.
- Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17. Wednesday—Mid-year examinations begin.
- Jan. 31. Wednesday—Last day for matriculation for second semester.
- Feb. 1. Thursday—Second semester begins.
- March 23. Saturday, 1:00 P.M.—Spring vacation begins.
- April 1. Monday, 8:00 A.M.—Instruction is resumed.

- April 15. Monday—Last day for submitting orations for Wiley Gray Contest.
- April 30. Tuesday—Last day for selection of courses for ensuing year.
- May 11. Saturday—Earliest date for beginning of Honors examination.
- May 17. Friday—Final examinations begin.
- June 1. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## ADMINISTRATIVE OFFICERS

---

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
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W. A. TYREE, <i>Secretary</i>	R. S. WILBUR
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---

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*Professor of Chemistry*

822 Third Street

Assisted by members of General Faculty listed in *General Bulletin*.

---

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K. B. PATTERSON, Mathematics

W. A. TYREE, Secretary

## ENGINEERING COURSES OFFERED

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### GENERAL STATEMENT

Duke University, through the Division of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering. These departments are housed respectively in Bivins, Asbury, and Branson Buildings. The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, recitation rooms, gymnasium, dining room, and kitchen, as well as dormitory facilities. Meals are provided in this building at the same rate which prevails in the other University dining halls.

**CURRICULA:** The courses of study in the several branches of engineering are set up to conform as closely as possible to the findings of the Society for the Promotion of Engineering Education. Fundamental training is given in English, mathematics, and the sciences, as well as in the technical subjects leading to professional work in civil, electrical, and mechanical engineering. Election of courses in the Department of Economics and Business Administration is encouraged in the belief that the combining of such courses with the rigorous engineering program affords excellent preparation for the types of commercial or industrial activities in which engineering training is most valuable.

**FACULTY:** The members of the Instructional Staff have been chosen particularly for their ability to teach. Instruction is given in small sections, insuring personal attention. The laboratory is used to supplement the classroom, and at present the same instructor carries his class through both the classroom and laboratory work. This is made possible only where classes are limited in size.

**STUDENT ACTIVITIES:** Three national engineering societies, the American Society of Civil Engineers, the American Society of Mechanical Engineers, and the American Institute of Electrical Engineers, are represented by student chapters operating under national charters. An honorary engineering fraternity, Delta Epsilon Sigma, was organized several years ago for the purpose of stimulating good scholarship among the engineering students. All four of these organizations afford unusual opportunities for the members to present papers and to conduct discussions in certain phases of engineering not covered in the classroom. Engineering students are in every sense a part of the student body of Duke University, enjoying the general advantages of the University and being subject to the general rules and regulations.

**HISTORY:** The teaching of engineering is not new at Duke University. From 1887 to 1893 formal courses in civil and mining engineering leading to the Bachelor of Science degree were offered by Trinity College. After their discontinuance in 1893, the teaching of engineering subjects was begun again in 1903 and has continued uninterrupted since that

time. At the present there are three departments offering courses in civil, electrical, and mechanical engineering leading to the degree Bachelor of Science in these branches of engineering. Grouped together under the direction of the Chairman and the Executive Committee, these three departments constitute the Division of Engineering.

### CIVIL ENGINEERING

The civil engineer's field of work may be divided into four major divisions: sanitary—dealing with water works, sewerage systems, and garbage disposal; hydraulic—interested in flood control, river improvement, irrigation, drainage, and water power; transportation—concerned with railroads, airports, highways, waterways, park systems, traffic control, and city planning; and structural—dealing with bridges, buildings, foundations, dams, tunnels, tanks, bins, and various industrial structures. His function is chiefly one of design and construction, although often it includes maintenance. In order to train a student in these various lines of effort, the following equipment is provided.

**HIGHWAY ENGINEERING:** The highway laboratory contains an abrasion machine, an impact machine, a diamond core drill, a diamond saw and grinding lap, as well as complete equipment for the testing of bituminous materials, such as extractors, ductility machine, penetrometer, flash point and melting point apparatus, viscosimeters, float test apparatus, Hubbard's stability machine, and other light equipment.

**SANITARY ENGINEERING:** In the sanitary laboratory there is complete equipment for performing the physical, chemical, bacteriological, and microscopic tests as outlined by the American Public Health Association. Different types of water current meters are available for work in steam gaging.

**SOILS TESTING:** A laboratory for the study of soils has been provided with the following equipment: constant temperature bath, Proctor outfit, liquid limit device, electric oven, centrifuge, hydrometers, sieves, and other equipment necessary to test soils for highway use.

**CEMENT TESTING:** There is available complete equipment for the testing of cement and aggregates, such as an automatic shot testing machine, flow table, Ro-Tap sieve shaker, a two-hundred-thousand-pound hydraulic compression machine, and other necessary supplies.

**SURVEYING:** For use in the courses in surveying, there are eleven transits, sixteen levels, three plane table outfits, solar attachments, sextants, compasses, barometers, and other light equipment, as well as one precise theodolite, and one precise level.

**STRESS ANALYSIS:** Advanced work in stresses is carried on by means of a large-sized Begg's deformeter and photoelastic equipment.

**GENERAL MATERIALS TESTING:** For the testing of steel, wood, and concrete there are a fifty-thousand-pound and a one-hundred-fifty-thousand-pound universal testing machine with extensometers, shearing tools, transverse indicators, strain gages, autographic recording device and other attachments. The Division also possesses a torsion machine, a Charpy-

Izod impact machine, a fatigue machine, a scleroscope, and other accessories.

### ELECTRICAL ENGINEERING

The field of electrical engineering covers the generation of electrical energy, both by water power and steam power, its transmission, distribution, and utilization; communication, both by wire and by radio, and the allied art of television; transportation, by locomotive, bus, and water; and illumination.

THE MACHINERY LABORATORY receives its electric power from the Duke Power Company over a 2300-volt, 60-cycle, three-phase line. The equipment includes an A. C. to D. C. motor-generator set for supplying the laboratory with direct current, four direct connected D. C. to D. C. motor-generator sets, two D. C. to A. C. belted sets, a G. E. sine wave motor-generator set, a Westinghouse phase displacement dynamometer, a General Electric type A. C.-D. C. synchronous converter, for one-, two-, three-, or six-phase operation, a self-starting, single-phase battery-charging converter, numerous single-phase constant potential transformers, a three-phase transformer, a constant current transformer equipped with a typical load of series street lamps, three-phase induction regulators, numerous loading devices both electrical and mechanical, and a number of miscellaneous D. C. and A. C. motors and generators. Complete equipment for testing fractional horsepower motors, together with eighteen typical motors, was recently added to this laboratory. In addition, the equipment includes a complete line of measuring instruments for both general testing purposes and precision measurements, and three oscillographs for viewing and photographing wave forms.

THE COMMUNICATIONS LABORATORY is exceptionally well equipped and contains complete apparatus for carrying out all kinds of communication experiments at both audio and radio frequencies. The audio-frequency equipment includes a 200-mile open-wire artificial telephone line, a vacuum tube amplifier-milliammeter-voltmeter, 6-A transmission measuring set, vacuum-tube oscillators calibrated for frequencies ranging from 25 to 100,000 cycles per second, a 1,000-cycle motor-generator, a direct reading frequency meter reading from 20 to 20,000 cycles per second; impedance bridges for both audio and intermediate frequencies; standards of resistance, inductance, and capacitance; filters of various kinds; a high quality amplifier, power amplifiers, loud speakers, noise meter, and other instruments for general test purposes. A complete Automatic Electric Company telephone exchange is included in this laboratory. The radio-frequency equipment consists of short wave and broadcast receivers, precisions wave meter, automatic field strength recorder, field intensity meter, standard signal generator, thermo-couples for current and voltage determinations, condensers, inductors, and meters. A complete two-way television telephone set is included with this equipment.

THE ELECTRONICS LABORATORY, adjoining the Communications Laboratory, is completely equipped for studies of vacuum tubes and vacuum

tube circuits: power supply units, special high resistance meters, oscillators, vacuum tube voltmeters, thermo-couples, etc.

THE STANDARDIZING LABORATORY is equipped with standard instruments for the purpose of checking and calibrating meters used in any of the other laboratories.

THE PROJECTS LABORATORY is set aside for the use of students who are working on special projects requiring set-ups which cannot be disturbed by regular laboratory experiments. This laboratory is made available to Seniors who elect projects course 265-266.

THE ELECTRICAL CIRCUITS LABORATORY is equipped with all necessary apparatus and instruments for carrying out experiments on direct current and alternating current circuits, such as studies of various types of meters, resistance and conductivity measurement, storage batteries, magnetic measurements, series and parallel circuits, power factor, etc.

THE AMATEUR RADIO STATION, W4AHY, is equipped with a 75-watt crystal-controlled C. W. transmitter, a Collins 30FXB 100-watt phone transmitter, Hammarlund Pro receiver, National SW5 receiver, a pair of RCA transceivers, and necessary testing and measuring equipment. The station is controlled and operated by the Engineers' Radio Association.

### MECHANICAL ENGINEERING

Mechanical engineering as a profession is concerned with power and machines to generate power and to apply it to useful ends. A field so broad includes all lines of industry, but among the special fields in which mechanical engineers are engaged are combustion or power production engineering, machine and machine-tool design, railway motive power, automotive engineering, aviation engineering, refrigeration, air conditioning, and industrial management.

In order to lay a foundation for a successful career in mechanical engineering, it is necessary to provide a tie between theory and practice, to become familiar with engineering apparatus and instruments as well as their testing and calibration. Laboratory work is therefore necessary. The equipment in the Branson Mechanical Laboratory has been carefully arranged in a number of groups, to serve the needs of the undergraduate for efficiently carrying out the program indicated above.

**BOILER ROOM.** The boiler room contains a one-hundred horsepower oil-fired boiler with complete accessories and controls by which it may be operated by students, providing steam for all steam experiments and tests.

**STEAM EQUIPMENT.** Conveniently located adjacent to the boiler room are a Troy horizontal self-oiling automatic steam engine, a Troy vertical throttling governor steam engine, and a Sturtevant steam turbine, together with brakes and accessories for their complete testing, either as units or as components in a small-scale power plant. Equipment for studying flow and quality of steam, an injector, and an arrangement for the study and testing of steam traps are included in this group.

**AIR COMPRESSION.** An electrically driven 12 x 10 Ingersoll-Rand air compressor has been arranged with accessories and instruments for testing it, and, in addition, provides means for studying the flow of high-pressure air through pipes, valves, and fittings.

**INTERNAL COMBUSTION EQUIPMENT.** Automobile and Diesel engines connected to electric and hydraulic dynamometers and generators are part of this laboratory. Appropriate instruments are provided for the determination of capacity, mechanical and thermal efficiency, and heat balance in each case.

**HYDRAULIC APPARATUS.** A Cameron centrifugal pump driven by a variable speed motor provides for a very complete determination of capacity and efficiency tests as well as being a controllable source of water for tests covering hydraulics as applied to mechanical engineering.

**INSTRUMENT ROOM.** An instrument room is provided for the storing and maintenance of instruments used in the laboratories. These instruments include: steam engine and internal combustion engine indicators and reducing motions, tachometers and speed counters, planimeters, pressure gages and calibrating equipment, thermometers of all types, scales and small tools.

**LUBRICANTS AND FUELS TESTING LABORATORY.** There are complete facilities for proximate analyses and calorific determinations of solid, liquid and gaseous fuels, as well as for all the standard tests of lubricants.

Additional equipment provides adequately for boiler feedwater analysis, study of the flow of water through pipes and fittings, blower testing and flow of air through ducts, and a number of tests in the field of air conditioning.



# ADMISSION TO COLLEGE

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## GENERAL REGULATIONS

Admission to the Division of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the Division of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculation.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, N. C.*

## ADMISSION TO DIVISION OF ENGINEERING

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodwork, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

### ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one-half of the fifteen units required for admission must come from the following:

#### *Required Units*

English .....	3 units
A Foreign Language .....	2 units
*Science .....	1 unit
History .....	1 unit
**Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

#### *Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra .....	½ unit
Solid Geometry .....	½ unit
Trigonometry .....	½ unit
†German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

\* Wherever possible physics or chemistry should be offered for this requirement.

\*\* Examination required to validate offering.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: All applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C." is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

### FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English and mathematics. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF  
 SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL  
 ENGINEERING

GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester hours of work of which one hundred and twenty-two must be completed with an average grade of "C." If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examination in May or June they are required to attend a three weeks' course in plane surveying given under the direction of the Summer School.

GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE  
 IN CIVIL, ELECTRICAL, OR MECHANICAL  
 ENGINEERING

GROUP I

CIVIL ENGINEERING

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester hours.

Sophomore Year

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics 8 .....	2
Surveying 11 .....	3	Materials 118 .....	3
Highways 15 .....	3	Highways 117 .....	2
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	18		17

*Junior Year*

S.H.		S.H.	
Strength of Materials 107 .....	4	Hydraulics 108 .....	4
Curves and Earthwork 113 .....	2	Curves and Earthwork 114 .....	2
Structures 131 .....	4	Structures 132 .....	4
Engineering Elective .....	3	Engineering Elective .....	3
Elective .....	3	Elective .....	3
<hr/>		<hr/>	
16		16	

*Senior Year*

Hydraulic Engg. 123 .....	4	Hydraulic Engg. 124 .....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
Seminar 137 .....	1	Seminar 138 .....	1
Electives .....	6	Astronomy 112 .....	2
		Electives .....	5
<hr/>		<hr/>	
17		17	

**GROUP II****ELECTRICAL ENGINEERING***Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
<hr/>		<hr/>	
17		17	

Three weeks of Surveying 10 in summer. Credit, 3 semester hours.

*Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Electrical Engineering 51 .....	3	Electrical Engineering 52 .....	3
Economics 51 .....	3	Economics 52 .....	3
Steam Engineering 85 .....	2	Physical Education .....	
Physical Education .....		<hr/>	
<hr/>		17	
18			

*Junior Year*

Theory of D.C. Circuits 151 .....	3	Theory of A.C. Circuits 152 .....	3
Hydraulics 108 .....	4	Strength of Materials 107 .....	4
Electrical Circuits Lab. 161 .....	1	Electrical Circuits Lab. 162 .....	1
Heat Power Engg. 181 .....	3	Heat Power Engg. 182 .....	3
Differential Equations 131 .....	3	Electrical Measurements 104 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 199 .....	1	Laboratory 200 .....	1
<hr/>		<hr/>	
15		15	

*Senior Year*

S.H.		S.H.	
A.C. Machinery 257 .....	2	A.C. Machinery 258 .....	3
Electric Power Trans. 159 .....	3	Electric Power Stations 158 .....	3
Communication 261 .....	3	Communication 262 .....	4
D.C. Machinery 155 .....	2	Seminar 166 .....	1
D.C. Machinery Lab. 163 .....	1	Electives .....	6
Seminar 165 .....	1		
Electives .....	6		17
	<hr/>		
	19		

**GROUP III****MECHANICAL ENGINEERING***Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester hours.

*Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Constructive Processes 79 .....	3	Steam Engineering 86 .....	3
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	16		17

*Junior Year*

Hydraulics 185 .....	3	Machine Design 170 .....	3
Strength of Materials 107 .....	4	Internal Comb. Engines 186 .....	3
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 189 .....	1	Laboratory 190 .....	2
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	17		17

*Senior Year*

Machine Design 171 .....	3	Aeronautics 198 .....	3
Power Plants 191 .....	3	Industrial Engineering 192 .....	3
Mech. Engg. Laboratory 193 .....	2	Mech. Engg. Laboratory 194 .....	2
Heating and Ventilation 195 .....	2	Refrigeration 196 .....	2
Seminar 173 .....	1	Seminar 174 .....	1
Electives .....	6	Electives .....	6
	<hr/>		<hr/>
	17		17



## COURSES OF INSTRUCTION

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### DIVISION OF ENGINEERING

NOTE: Courses primarily for Freshmen and Sophomores are numbered from 1 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.

The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation (w & E) indicates that the course will be given on each campus.

Odd-numbered courses are offered in the fall semester and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

### GENERAL ENGINEERING

**1-2. Engineering Drawing.**—The study and practice of mechanical drawing of elementary machine parts with special reference to such topics as dimensioning, material specifications and elements of intersections, projections and developments. Six laboratory hours. **4 s.h.** (E) MR. PIGAGE

**5. Descriptive Geometry.**—Problems relating to point, line, plane, and solid relationships in space. One recitation, three laboratory hours. **2 s.h.** (E) MR. PIGAGE

**7. Statics.**—Concurrent forces, parallel forces, non-concurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisites: courses 1 and 2, Mathematics 9 and 10. **3 s.h.** (E) STAFF

**8. Kinetics.**—Translation, rotation, work, energy, and momentum. Prerequisites: course 7, and Mathematics 59. **2 s.h.** (E) STAFF

**107. Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses; etc. Three recitations, three laboratory hours. Prerequisite: course 7. **4 s.h.** STAFF

**108. Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 7. **4 s.h.** (E) STAFF

### CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MR. WILLIAMS

**S10. Plane Surveying.**—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer School. Prerequisites: course 1, and trigonometry. **3 s.h.** (E)

See the *Bulletin of the Summer School*.

**11. Higher Surveying.**—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course 10. **2 s.h. (E)** MR. WILLIAMS

**S110. Plane Surveying.**—Similar to course 10 but especially arranged for students in forestry. Eight hours a day, three weeks, Summer School. Prerequisites: Engineering Drawing and Trigonometry. **3 s.h.**

See the *Bulletin of the Summer School*.

**111. Higher Surveying.**—For students in forestry. In addition to the ground covered in course 11, the field work includes a more thorough drill in the use of the Beaman stadia arc and the topographic abney level and trailer tape while more attention is given to the preparation of finished maps in the office work. Eight hours a day, three weeks, Summer School. Prerequisite: course 10 or 110. **3 s.h.**

See the *Bulletin of the Summer School*.

**112. Field Astronomy.**—Determination of latitude, longitude, time, and azimuth by observation on sun and stars; use of precise transit, solar attachment, and sextant. Prerequisite: course 11. **2 s.h. (E)** PROFESSOR BIRD

**113-114. Curves and Earthwork—Highways.**—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course 10. **4 s.h. (E)** MR. WILLIAMS

**15. Highway Engineering.**—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. **3 s.h. (E)**

MR. WILLIAMS

**117. Highway Engineering.**—Standard tests of stone, gravel, and bituminous materials. Prerequisite: course 15. **2 s.h. (E)** MR. WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials other than those taken up in course 117. **2 or 3 s.h. (E)** MR. WILLIAMS

**119-120. Railroad Engineering.**—Differences between highway and railway practice affecting curves and earthwork. A. R. E. A. transition curve, frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location made with estimate of cost. Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 113-114. **5 s.h. (E)** PROFESSOR BIRD AND MR. WILLIAMS

**123-124. Hydraulic Engineering.**—

(a) Hydrology—Factors affecting precipitation, evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) Public Water Supply—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) Sewerage—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course 108. **8 s.h. (E)** PROFESSOR HALL

**131. Steel Structures—Stresses.**—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course 7. **4 s.h. (E)** PROFESSOR BIRD

**132. Steel Structures—Design.**—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses 107 and 131. 4 s.h. (E) PROFESSOR BIRD

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course 107. 3 s.h. (E) PROFESSOR BIRD

**134. Masonry Structures.**—Ordinary foundations, dams, retaining walls, arches, piers, abutments. Prerequisites: courses 107 and 133. 3 s.h. (E) PROFESSOR BIRD

**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E) STAFF

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 3-6 s.h. (E) Either semester. PROFESSORS BIRD AND HALL

**E.240. Indeterminate Structures.**—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformer. Prerequisites: course 131 and ability to read French or German. 3 s.h. (E) PROFESSOR BIRD

## ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MR. RANSON

**51-52. Survey of Electrical Engineering.**—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshman mathematics and concurrent physics. 6 s.h. (E) ASSISTANT PROFESSOR MEIER

**151. Theory of Direct Current Circuits.**—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits. Two-hour class, two-hour computation. Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. 3 s.h. (E) MR. RANSON

**152. Theory of Alternating Current Circuits.**—This course covers the algebra of vectors and complex quantities, non-sinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. 3 s.h. (E) ASSISTANT PROFESSOR MEIER

**153-154. Principles of Electrical Engineering.**—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MR. RANSON

**155. Direct Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

**156. Electric Transportation.**—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. RANSON

**158. Electric-Power Stations.**—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and 187-188. 3 s.h. (E) MR. RANSON

**159. Electric-Power Transmission.**—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. 3 s.h. (E) PROFESSOR SEELEY

**161-162. Electrical Circuits Laboratory.**—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) PROFESSOR SEELEY

**163. Direct Current Machinery Laboratory.**—A study of the technique of testing direct current machines and a thorough analysis of their performance. Concurrent with course 155. 1 s.h. (E) ASSISTANT PROFESSOR MEIER

**165-166. Electrical Engineering Seminar.**—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. Scheduled at night. 2 s.h. (E) STAFF

**257-258. Alternating Current Machinery.**—This course covers the theory underlying the design, construction, and operation of synchronous generators and motors, transformers, converters, single-phase and polyphase motors of all types. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 155. 6 s.h. (E) ASSISTANT PROFESSOR MEIER

**261. Communication Engineering, Audio Frequency.**—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. (E) PROFESSOR SEELEY

**262. Communication Engineering, Radio Frequency.**—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission and reception. Three-hour class, three-hour laboratory. Prerequisite: course 261. 4 s.h. (E) PROFESSOR SEELEY

**263-264. Mathematical Analysis of Electrical Circuits.**—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. (E) PROFESSOR SEELEY

**E.265-266. Projects in Electrical Engineering.**—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only. Elective credit. 3-6 s.h. (E) PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSOR REED; MESSRS. CHAPMAN AND PIGAGE

**79. Constructive Processes.**—Recitation course covering fundamentals of metallography and general processes in foundry, forge, and machine shop. Trips to neighboring shops are included. Prerequisite: Chemistry 2. Open only to mechanical engineering students. 3 s.h. (E)

MR. CHAPMAN AND MR. PIGAGE



**82. Kinetics-Mechanism.**—Motions of particles; Newton's laws of motion and application to motions of rigid bodies, work, energy, impulse and momentum. Linkages, belts, cams, gears and trains of mechanism. Three lectures and three laboratory hours. Prerequisites: G. E. 2, G. E. 7, Mathematics 59. Corequisite: Mathematics 60. **4 s.h. (E)**

ASSISTANT PROFESSOR REED AND MR. CHAPMAN

**85. Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam, fuels, and combustion. For electrical engineering students. Prerequisite: Physics 18. **2 s.h. (E)** MR. CHAPMAN

**86. Steam Engineering.**—Elementary principles of boilers, steam engines, turbines, internal combustion engines, and auxiliaries; properties of steam, fuels, and combustion. Laboratory demonstrations of principles. Two recitations, three laboratory hours. Prerequisite: Physics 18. **3 s.h. (E)**

MR. CHAPMAN AND MR. PIGAGE

**170-171. Machine Design.**—Applications of principles of strength of materials and constructive processes to design of riveted and welded joints, pressure vessels and machine elements, followed by design of at least one complete machine. Two lectures, three laboratory hours. Prerequisites: G. E. 107, M. E. 79, M. E. 82. **6 s.h. (E)**

ASSISTANT PROFESSOR REED

**173-174. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. **2 s.h. (E)**

STAFF

**175-176. Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Either semester. **3 s.h. (E)**

PROFESSOR WILBUR AND STAFF

**181-182. Heat Power Engineering.**—A short course in engineering thermodynamics followed by applications to power plant design. For civil and electrical engineering students. Prerequisites: M. E. 85, Mathematics 60. **6 s.h. (E)**

ASSISTANT PROFESSOR REED

**185. Hydraulics.**—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: course 82. **3 s.h. (E)**

MR. CHAPMAN

**186. Internal Combustion Engines.**—Principal cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; carburetion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M. E. 187. **3 s.h. (E)**

PROFESSOR WILBUR

**187-188. Engineering Thermodynamics.**—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisites: course 86 and Mathematics 60. **6 s.h. (E)**

PROFESSOR WILBUR

**189-190. Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. Principles of steam and fuel calorimeters; gas analysis; oil testing; measurement of steam, air, and water flow; elementary steam engine and boiler tests. Three laboratory hours first semester, six hours second semester. Prerequisites: course 86 and course 187-188 concurrently. **3 s.h. (E)**

MR. CHAPMAN

**191. Power Plant Calculations.**—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M. E. 187-188 or 181-182. 3 s.h. (E) PROFESSOR WILBUR

**192. Industrial Engineering.**—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage payment, etc. Seniors only. Three recitations. 3 s.h. (E) MR. PIGAGE

**193-194. Senior Mechanical Engineering Laboratory.**—Advanced engineering tests of performance and economy of steam engines, turbines, boilers and power plant accessories, internal combustion engines, heating and refrigerating equipment; heat balances and heat transfer. Six laboratory hours. Prerequisite: M. E. 190. Corequisites: M. E. 191, M. E. 195, M. E. 196. 4 s.h. (E) ASSISTANT PROFESSOR REED

**195. Heating and Air Conditioning.**—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices, and industrial buildings. Prerequisites: M. E. 188 or M. E. 182. 2 s.h. (E) ASSISTANT PROFESSOR REED

**196. Refrigeration.**—Fundamentals of refrigerating systems and design, and applications in industry. Prerequisites: M. E. 188 or M. E. 182, and M. E. 190 or M. E. 200. 2 s.h. (E) ASSISTANT PROFESSOR REED

**198. Aeronautics.**—Aerodynamic principles applied to airfoils, propellers, and the complete airplane; dynamic loading and performance calculations. Prerequisites: courses 171 and 185. 3 s.h. (E) MR. CHAPMAN

**199-200. Junior Mechanical Engineering Laboratory.**—Open only to electrical and civil engineering students who have elected M. E. 181-182. Work covers use of various engineering measurement apparatus, flow of air, steam and water, with economy tests on steam engines and turbines, boiler and internal combustion engines. Three laboratory hours. Prerequisite: M. E. 85. (E) PROFESSOR WILBUR

## REQUIRED NON-ENGINEERING SUBJECTS

**1-2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h. (W & E) STAFF

**1-2. English Composition.**—All Freshmen are required to take course 1 and course 2; however, those who earn a grade of "B" or more on the work of the first semester may in the spring substitute course 4 for course 2.

Students in courses 1 and 2 who fail to earn an average grade of "C" on the work of both semesters and at least a grade of "C" on the work of the spring term are required to do the work of English 53 during their Sophomore year. Those who do not earn a grade of "D" during the first semester are required to repeat during the spring course 1; if they earn a grade of "D" or more at the end of the spring semester, they receive credit for the first half-year of work, and during their Sophomore year they are required to do the work of English 2. Students whose grades for both semesters fall below "D" must repeat the entire course during their second year. 6 s.h. (E & W) STAFF



**53. English Composition.**—A second course in composition for Sophomores. **3 s.h.** *Repeated in the second semester.* (W & E) STAFF

**9-10. Engineering Mathematics.**—This course, given for Engineering Freshmen and other students who desire to take more than six hours of mathematics in their Freshman year, includes college algebra, plane trigonometry, and plane and solid analytic geometry. **10 s.h.** (E) STAFF

**59. Differential Calculus.**—*Each semester.* Prerequisite: course 9-10, or equivalent. **4 s.h.** (W & E) STAFF

**60. Integral Calculus.**—*Each semester.* Prerequisite: course 55. **4 s.h.** (W & E) STAFF

**131. Differential Equations.**—A study of the more common types of ordinary differential equations. Primarily a problem course for engineers. Prerequisite: course 60. **3 s.h.** (W) STAFF

**57-58. Physics for Engineers.**—A course in general physics which gives special emphasis to engineering problems. Open to Sophomores who have completed trigonometry. Four-hour recitation (E) and three-hour laboratory. **10 s.h.** (W) DR. MOUZON AND ASSISTANTS

**104. Electrical Measurements.**—This course is intended as a general elective for students in electrical engineering and physics. A fundamental course in electrical engineering, or course 103 is a prerequisite. Two recitations and one three-hour laboratory period per week. **3 s.h.** (W) PROFESSOR NIELSEN

## RECOMMENDED ELECTIVE SUBJECTS

**51-52. Principles of Economics.**—This course must be taken by all students planning to elect further courses in economics and business administration. Old number 1. **6 s.h.** (W & E) STAFF

**103. Transportation.**—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. *For Juniors and Seniors.* **3 s.h.** (W) ASSISTANT PROFESSOR LONDON

**105. Industrial Management and Business Forecasting.**—A study of the organization and management of industry, with emphasis upon the business applications of the principles developed. Problems of interrelations of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. *For Juniors.* **3 s.h.** (W) STAFF

**115. Economic Geography.**—*This course is not open to students who have received credit for Economics A.* The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the work of man as environmental factors. **3 s.h.** (E) DR. LEMERT

**57-58. First-Year Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. Old number 7. **6 s.h.** (W) STAFF

**137-138. Business Statistics.**—A year's course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. The first term is devoted to a study of statistical methods; the second term, to application of these methods. Very little algebra and no higher mathematics are required. *For Juniors and Seniors.* 6 s.h. (w)  
DR. NICHOL

**181-182. Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnership, corporations, and bankruptcy. Textbook: Bays, *Business Law*. Casebook: Bays, *Cases on Commercial Law*. Required of Seniors in the Business Administration Group. Old number 178. 6 s.h. (w)  
MR. LAYTON

**101-102. American Government and Politics.**—A study of the American political system, the subject matter of which includes the organization and functioning of national, state, and local governments in the United States. Open to Sophomores by special permission. 6 s.h. (w & e)  
STAFF

**164. Railroad Legislation in the United States.**—A study of powers, activities and the interrelationship of regulatory bodies, state and federal, as evidenced in legislation, administrative functioning and judicial interpretation. 3 s.h. (w)  
PROFESSOR WILSON

**294. Municipal Government and Administration.**—A study of the general problems related to the structural system and activities of municipalities in the United States. Special reference is made to the problems of municipal government in North Carolina. 3 s.h. (w)  
PROFESSOR RANKIN

Special permission of the instructors must be obtained before registering in courses 164 and 294.

**151. Public Speaking.**—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. 3 s.h. (w)  
ASSISTANT PROFESSOR HERRING AND MR. LEWIS

**152. Argumentation.**—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. 3 s.h. (w)  
ASSISTANT PROFESSOR HERRING AND MR. LEWIS

**53. General Bacteriology.**—Laboratory and lectures. 4 s.h. (w)  
PROFESSOR WOLF

**51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. 4 s.h. (w)  
ASSISTANT PROFESSOR BERRY

**52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. 4 s.h. (w)  
ASSISTANT PROFESSOR BERRY

## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester .....	3.00
Publication Fee:	
First semester.....	2.50
Second semester.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 104, 156, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262.....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54.....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, 143, 144, and 240	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 86, 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102.....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged for Chemistry 153-154.

History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physics 57, 58, 104, 205, 206, 215, 216, 217, and 218.....	3.00
Physics 51-52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures, nor an estimated cost of \$20.00 to \$25.00 for drawing equipment.

The athletic and publication fees, also included in the above figures, while not essentially University fees, are at the request of the students collected by the Treasurer of the University as designated above. The proceeds of these fees are turned over to these distinct and separate student activities. The athletic fee entitling the holder to admission to all athletic contests held on the University grounds is collected from all regularly enrolled students. The publication fee pays for a blanket subscription to the semiweekly student newspaper, the monthly student magazine, and the student yearbook. With all undergraduates this charge is compulsory, but in the case of graduate students it is optional.

### DORMITORIES

The regular fee for room-rent in the Southgate Building, set aside for engineering students, is \$50.00 per semester (two in a room).

Rooms in Epworth Hall, East Campus, are open to men students for a rental of \$30.00 per student, per semester.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, College Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the

Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

### **BOARDING ACCOMMODATIONS**

It is the policy of the University to furnish board to its students at actual cost. Charges for board will not exceed \$25.00 per month.

### **LAWS REGULATING PAYMENTS**

The Executive Committee of the Trustees of Duke University has enacted the following regulations, which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend, or in any way alter, these regulations.

2. Matriculation and tuition fees are never refunded.

3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.

4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.

5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties if his bills are not paid on the dates advertised.

### **TRANSCRIPTS**

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

### **ENGINEERING ORGANIZATIONS AND FRATERNITIES**

American Institute of Electrical Engineers; American Society of Civil Engineers; American Society of Mechanical Engineers; Delta Epsilon Sigma (Honorary Engineering Fraternity); The Engineers' Club.









VOLUME 11

March, 1939

NUMBER 3-C

# BULLETIN OF DUKE UNIVERSITY

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## *The Summer School*



1939

FIRST TERM: JUNE 12-JULY 22

SECOND TERM: JULY 24-SEPTEMBER 2

ANNOUNCEMENT

JUNALUSKA SUMMER SCHOOL, INC.  
(AFFILIATED WITH DUKE UNIVERSITY)

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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Published by Duke University in January, February, March, April, May, and June. Entered as Second Class Matter March 25, 1929, at the Post Office at Durham, N. C., Under the Act of August 24, 1912.

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1939





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- GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).
- HALE, ORON JAMES; University of Washington (Seattle); A.M., Ph.D., University of Pennsylvania; HISTORY (University of Virginia).
- HAUSER, CHARLES ROY; B.S., M.S., University of Florida; Ph.D., University of Iowa; CHEMISTRY (Duke University).
- HAWKES, EVELYN JONES; A.B., A.M., Duke; Ph.D., University of Pennsylvania; SECONDARY EDUCATION (New Jersey College for Women).
- HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director, Division of Instructional Service, North Carolina Department of Public Instruction).
- HILL, LAWRENCE FRANCIS; A.B., M.A., Ph.D., University of California; HISTORY (Ohio State University).
- HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director of Professional Service, North Carolina Department of Public Instruction).
- HOLLIS, ERNEST VICTOR; B.S., M.S., Mississippi State College; A.M., Ph.D., Columbia; EDUCATION (College of the City of New York).
- HOLSOPPLE, JAMES QUINTER; B.S., Ph.D., Johns Hopkins; National Fellow, Johns Hopkins; EDUCATIONAL PSYCHOLOGY (Chief Psychologist, New Jersey State Hospital).
- HOWARD, GEORGE; A.B., Davidson College; A.M., Ph.D., Columbia; EDUCATION (Supervisor Secondary Schools, Canal Zone).
- HUGHES, MERRITT YERKES; A.B., Boston University; M.A., Edinburgh University; Ph.D., Harvard; ENGLISH (University of Wisconsin).
- HURLEY, LEONARD BURWELL; A.B., A.M., Duke; University of Chicago; Columbia, 1922; Ph.D., University of North Carolina; ENGLISH (Woman's College of University of North Carolina).
- JENKINS, RAYMOND; A.B., Cornell; Ph.D., Yale; ENGLISH (Catawba College).
- JERNIGAN, CHARLTON CONEY; A.B., A.M., Ph.D., Duke; GREEK (Woman's College, University of North Carolina).
- JONES, FREDERICK L.; A.B., Furman; A.M., Ph.D., Cornell; ENGLISH (Mercer University).
- JORDAN, ARCHIBALD CURRIE; A.B., Duke; A.M., Columbia; Columbia, 1924-25; ENGLISH (Duke University).
- JORDAN, ARTHUR MELVILLE; A.B., Randolph-Macon; A.M., Duke; Ph.D., Columbia; EDUCATIONAL PSYCHOLOGY (University of North Carolina).



- LANDON, CHARLES E.; A.B., A.M., University of Kansas; Ph.D., University of Illinois; ECONOMICS (Duke University).
- LANGSAM, WALTER CONSUELO; B.S., College of the City of New York; A.M., Ph.D., Columbia; HISTORY (Union College).
- LEISY, ERNEST E.; A.B., University of Kansas; A.M., University of Chicago; Ph.D., University of Illinois; ENGLISH (Southern Methodist University).
- LINEBARGER, PAUL M. A.; A.B., George Washington University; A.M., Ph.D., Johns Hopkins; POLITICAL SCIENCE (Duke University).
- MANCHESTER, ALAN KREBS; A.B., Vanderbilt; A.M., Columbia; Ph.D., Duke; HISTORY (Duke University).
- MAXWELL, WILLIAM CARY; A.B., A.M., Duke; Ph.D., University of Heidelberg; GERMAN (Duke University).
- MILES, EDWARD ROY CECIL; B.S., Georgia School of Technology; A.M., Harvard; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- MONTAGUE, LUDWELL LEE; A.B., Virginia Military Institute; A.M., University of Pennsylvania; Ph.D., Duke; HISTORY (Virginia Military Institute).
- MOUZON, JAMES CARLISLE; A.B., Southern Methodist University; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- OOSTING, HENRY JOHN; A.B., Hope College; M.S., Michigan State College; Ph.D., Minnesota University; BOTANY (Duke University).
- ODELL, CHARLES WATTERS; A.B., A.M., DePauw; Ph.D., University of Illinois; EDUCATIONAL PSYCHOLOGY (University of Illinois).
- OVERN, ALFRED VICTOR; A.B., M.S., Ph.D., University of Minnesota; EDUCATION (University of North Dakota).
- PARKS, EDD WINFIELD; A.B., Harvard; A.M., Ph.D., Vanderbilt; ENGLISH (University of Georgia).
- PORTERFIELD, AUSTIN L.; Oklahoma City University; A.M., Drake; B.D., Phillips; Ph.D., Duke; SOCIOLOGY (Texas Christian University).
- PUNKÉ, HAROLD HERMAN; B.S., M.S., University of Illinois; Ph.D., Chicago; EDUCATION (Georgia State Woman's College).
- QUYNN, DOROTHY MACKAY; A.B., A.M., University of California; Docteur de l'Université de Paris; HISTORY (Duke University).
- QUYNN, WILLIAM ROGERS; A.B., A.M., University of Virginia; Ph.D., Johns Hopkins; FRENCH (Duke University).
- ROBERT, JOSEPH CLARKE; B.A., Furman; A.M., Ph.D., Duke; HISTORY (Duke University).
- ROBERTS, JOHN HENDERSON; A.B., Ph.D., University of Texas; National Research Fellow, University of Pennsylvania, 1929-30; MATHEMATICS (Duke University).
- ROOT, PAUL ADELBERT; A.B., Asbury College; B.D., Ph.D., Duke; SOCIOLOGY (Southern Methodist University).



- SANDERS, CHARLES RICHARD; B.Ph., A.M., Emory; Ph.D., University of Chicago; ENGLISH (Duke University).
- SAYLOR, JOHN HENRY; A.B., Southern Methodist University; A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- SHIELDS, JOHN HERMAN; A.B., A.M., University of Texas; Columbia, 1924-26; ACCOUNTING (Duke University).
- SLAY, RONALD JAMES; B.S., University of Mississippi; A.M., Ph.D., Columbia; TEACHING OF SCIENCE (East Carolina Teachers College).
- SMITH, CULVER HAYGOOD; A.B., Duke; A.M., Yale; Ph.D., Duke; HISTORY (University of Chattanooga).
- SPENCER, HAZELTON; A.B., Boston University; A.M., Ph.D., Harvard; ENGLISH (Johns Hopkins University).
- SPRINGER, JOHN YOUNG; A.B., M.B.A., Stanford; ECONOMICS (Duke University).
- STEPHENSON, WENDELL HOLMES; A.B., A.M., Indiana; Ph.D., University of Michigan; HISTORY (Louisiana State University).
- STEWART, GEORGE RIPPEY; A.B., Princeton; M.A., University of California; Ph.D., Columbia; ENGLISH (University of California, Berkeley).
- STUART, GRAHAM; A.B., Western Reserve; A.M., Ph.D., University of Wisconsin; POLITICAL SCIENCE (Stanford University).
- SUGDEN, HERBERT WILFRID; A.B., Harvard; A.M., Ph.D., Duke; ENGLISH (Duke University).
- THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- TIREMAN, LOYD SPENCER; B.A., Upper Iowa University; A.M., Ph.D., University of Iowa; EDUCATION (University of New Mexico).
- WALLIN, JOHN EDWARD WALLACE; A.B., Augustana; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).
- WARD, CHARLES EUGENE; A.B., Baker; A.M., Ph.D., Duke; ENGLISH (Duke University).
- WILSON, FREDERICK ELIPHAZ; A.B., Oberlin College; A.M., Columbia; University of Leipzig, 1916-17; Harvard, 1922-23; GERMAN (Duke University).
- WOODY, ROBERT HILLIARD; Ph.B., Emory; A.M., Ph.D., Duke; HISTORY (Duke University).
- AVILÉS, LUIS ESTEBAN; A.B., Park College; A.M., University of Kansas; Ph.D., University of Illinois; SPANISH (Duke University).
- AYCOCK, THOMAS MALCOLM; B.S., Oklahoma State College; M.S., University of Iowa; HEALTH EDUCATION (Duke University).
- BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31, 1938; EDUCATION (Visiting Instructor, Duke University).

- BERRY, THOMAS SENIOR; S.B., A.M., Ph.D., Harvard; ECONOMICS (Duke University).
- BONNER, LYMAN GAYLORD; A.B., University of Utah; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- BOOKHOUT, CAZLYN GREEN; A.B., St. Stephens College; A.M., Syracuse; Ph.D., Duke; ZOOLOGY (Duke University).
- BRADSHER, CHARLES KILGO; A.B., Duke; A.M., Ph.D., Harvard; ASSISTANT IN CHEMISTRY (Duke University).
- BROWN, FRANCES; A.B., Agnes Scott College; Ph.D., Johns Hopkins; CHEMISTRY (Duke University).
- BRUINSMA, HENRY A.; B.M., M.M., University of Michigan; MUSIC (Duke University).
- CARPENTER, JAMES MADISON; A.B., A.M., University of Mississippi; Ph.D., Harvard; ENGLISH (Duke University).
- CURTIS, KADER RANDOLPH; B.A., Wake Forest College; M.Ed., Duke; EDUCATION (Superintendent of Wilson County and City Schools).
- DOW, NEAL; A.B., Kenyon College; A.M., Ph.D., University of Pennsylvania; FRENCH (Duke University).
- DRESSEL, FRANCIS GEORGE; B.S., Michigan State College; M.S., University of Michigan; Ph.D., Duke; MATHEMATICS (Duke University).
- EDDY, G. NORMAN; Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College, Duke, 1938-39; SOCIOLOGY (Duke University).
- ESKRIDGE, THOMAS JOSEPH, JR.; A.B., Emory and Henry College; A.M., George Peabody College; Ph.D., Duke; EDUCATION (Lander College).
- HARRIS, ROBERT EDWARD; A.B., A.M., Indiana; JOURNALISM (Los Angeles Junior College).
- HARWELL, GEORGE CORBIN; A.B., A.M., Duke; Duke, 1935-38; ENGLISH (Duke University).
- HILL, DOUGLAS; A.B., Yale; A.M., Ph.D., Princeton; CHEMISTRY (Duke University).
- HOBBS, MARCUS EDWIN; A.B., A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- JOHN, LENORE SUSAN; A.B., York College; A.M., University of Chicago; Chicago, 1927-30; ELEMENTARY EDUCATION (Specialist in Arithmetic, University of Chicago Laboratory School).
- JOHNSON, MYCHYLE W.; A.B., Ph.D., University of Indiana; ZOOLOGY (Duke University).
- KEECH, JAMES MAYNARD; A.B., A.M., Ph.D., Duke; ECONOMICS (Duke University).
- McCLOY, SHELBY THOMAS; A.B., A.M., Davidson College; B.Litt., B.A., Oxford; Ph.D., Columbia; HISTORY (Duke University).
- MacCOLL, SYLVIA HAZELTON; A.B., A.M., Smith College; Ph.D., Duke; PSYCHOLOGY (Duke University).

- MABRY, WILLIAM ALEXANDER; A.B., A.M., Duke; A.M., Harvard; Ph.D., Duke; HISTORY (Duke University).
- MARKS, SALLIE BELLE; A.B., A.M., Columbia; George Washington University, 1938-39; ELEMENTARY EDUCATION (Meredith College).
- MICHAELS, MATILDA OSBORNE; A.B., Duke; A.M., Columbia; ELEMENTARY EDUCATION (Supervisor Durham County Schools).
- PORTER, ESTELLE RAWL; A.B., Winthrop College; Smith College, 1922-23; University of Chicago, 1926-27; ELEMENTARY EDUCATION (Queens-Chicora College).
- RAYMOND, MARY LOIS; A.B., Mount Holyoke College; A.M., Radcliffe College; University of Wisconsin, 1919-20; University of Madrid and University of Paris, 1921-22; School of International Studies, Geneva, 1928; FRENCH (Duke University).
- SIMPSON, WILLIAM HAYS; A.B., Tusculum College; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
- STROVEN, CARL GERHARDT; A.B., A.M., Stanford; Duke, 1930-31, 1937-39; ENGLISH (Duke University).
- WATSON, KARL BRANTLEY, JR.; B.S., A.B., University of Chattanooga; A.M., Duke; Duke, 1936-38; EDUCATION (Duke University).
- WELFLING, WELDIN WOODROW; A.B., Swarthmore College; A.M., Ph.D., Princeton; ECONOMICS (Duke University).
- WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).
- ALSTON, AUGUSTA MICHAELS; A.B., Duke; DRAWING (Durham Public Schools).
- BOOKHOUT, ELIZABETH CIRCLE; A.B., Randolph-Macon Woman's College; M.S., Wellesley; PHYSICAL EDUCATION (Duke University).
- BRESLOW, DAVID SAMUEL; B.S., College of the City of New York; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).
- DEANS, EDWINA; A.B., North Carolina College for Women; M.Ed., Duke; ELEMENTARY EDUCATION (Evanston, Illinois, Schools).
- MARYOTT, ARTHUR ALLEN; A.B., Duke; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).
- MASON, MARY LOCHER; Diploma, Maryland Institute; Diploma in Fine Arts, Teachers College, Columbia; DRAWING (Durham City Schools).
- PERSONS, WALTER S.; SWIMMING (Duke University).
- RICHARDS, JAMES AUSTIN, JR.; A.B., Oberlin College; Duke, 1938-39; ASSISTANT IN PHYSICS (Duke University).
- STUCKEY, JAMES MORLAN; B.S., Centenary College; A.M., Duke; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).
- WILLIAMS, JAMES WESLEY; A.B., Duke; B.S., Georgia School of Technology; ASSISTANT IN ENGINEERING (Duke University).
- WILSON, JANE BLISS; A.B., Duke; A.B. Libr. Sci., University of North Carolina; CHILDREN'S LITERATURE (Children's Department, Detroit Public Library).
- YOUNG, DeWALT SECRIST; A.B., Cornell College (Iowa); Duke, 1938-39; ASSISTANT IN CHEMISTRY (Duke University).

## DUKE UNIVERSITY SUMMER SCHOOL

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Duke University, located at Durham, North Carolina, includes Trinity College, the Woman's College, the Graduate School of Arts and Sciences, the Schools of Religion, Law, Medicine, Nursing, and Forestry, the Department of Education, and the Division of Engineering. The student body is drawn from the entire United States, with a representative group of foreign students. The summer enrollment is smaller than that of the regular year, but with a somewhat larger representation of graduate students.

In 1938 there was a total of 3,513 registrations in Duke University Summer School and affiliated schools. Of these registrations 2,177 students were enrolled in the first term of the Duke University Summer School, and 1,013 the second term; 185 were enrolled in the Junaluska Summer School, Inc., and Junaluska School of Religion at Lake Junaluska; and 138 were enrolled in the Medical School and the School of Nursing. There were 1,334 graduate students the first term, and 843 the second, admitted on the basis of Bachelor's degrees from 316 different colleges and universities. The total enrollment for the summer was drawn from thirty-eight states, as well as the District of Columbia, Puerto Rico, Canada, Cuba, England, China, Japan, and Korea. The larger enrollments were from North Carolina, Pennsylvania, Florida, South Carolina, West Virginia, Georgia, Virginia, Tennessee, Mississippi, New Jersey, Ohio, New York, Kentucky, Maryland, and Alabama in the order named. Public school teachers from twenty-nine states were included in the total.

### CAMPUS AND BUILDINGS

Duke University is located on two campuses connected by prompt and inexpensive bus service. The Duke Forest is adjacent and easily accessible to the West Campus. Both campuses will be used by the Summer School of 1939. The West Campus will be used for the graduate students, both men and women, both terms, and for undergraduates the last six weeks. This campus, with its Tudor Gothic architecture, has all dormitories, laboratories, classroom buildings, auditorium, administration building, and the buildings of the professional schools conveniently grouped around the quadrangle dominated by the University Chapel. On one corner immediately beyond the Chapel is the General Library, the largest in the Southeast. Opposite the Library is the Union, center of student activities, one of the most complete buildings of its kind to be found in American institutions. In it are housed practically all the facilities needed in the general day-by-day round of student life, including a large social lobby, reading room, information office, alumni and news service headquarters, five dining rooms, reception rooms, headquarters for

various student organizations, the government post office, the University Store, a complete haberdashery, and a barbershop.

The East Campus, which during the academic year houses the Woman's College, will be used exclusively for undergraduates the first six weeks of Summer School. All undergraduate women will be housed on this campus, all undergraduate classes except in laboratory science (chemistry, physics, and zoology), and accounting will be held there, and books reserved for undergraduate courses will be reserved in the East Campus Library. The dining room and other facilities will be fully available for the use of undergraduate students the first six weeks. Southgate Dormitory, which during the academic year is used by the engineering students, will be reserved for undergraduate men the first six weeks.

### CHANGES IN CALENDAR FOR THE SUMMER OF 1939

On account of the growth of the first term of Summer School, there will be no middle term for the summer of 1939. Apparently the first term registration will fill both dormitories and classrooms without making possible any registrations for the middle term.

Since the middle term has been discontinued, the first term instead of beginning Wednesday following the first Sunday in June will begin Monday, June 12, thereby making it possible for students who register in advance to enter classes as late as Friday morning, June 16. Students who enter late, however, are marked absent from classes held prior to their entrance, and the student who has more than four absences cannot receive full credit for the term's work. The five-day postponement in beginning the first term of Summer School means that the second cannot close until September 2. Since many students have found it exceedingly hard to complete twelve weeks' work in one term of Summer School, students are advised to register for only eleven weeks and take advantage of the early examinations closing August 26. This means that the student who enters the first term of Summer School and continues for five weeks of the last term, completes a full "summer quarter," or an exact one-third of the year now required for a Master's degree (see "New Requirements for Master's Degrees").

### CALENDAR AND REGISTRATION

The first term of Summer School will open June 12 and close July 22. The second term will open July 24 and close September 2. Students who desire a summer "quarter" of eleven weeks to complete one-third of a regular year's work, for example, one-third of the work required for a Master's degree, can complete such work in the period from June 12 to August 26. All Mondays except June 26, July 10, and August 28 are holidays. July 4 will be observed as Independence Day.

For the first term, Monday, June 12, is registration day. Any students who have not previously registered by mail should be present at 9 A.M. and 2 P.M. to submit their credentials for admission, select



courses, and make arrangements concerning board and lodging. Students arriving after 5 P.M. Monday will register the next morning at 8:30.\* Regular classes will begin Tuesday morning at 8:00. Students will find schedules posted on the bulletin board prior to registration.

For the second term, Monday, July 24, is registration day, and classes will begin Tuesday morning at 8:00.

### ADMISSION

Applicants for admission must have completed a high-school course. As evidence of this, a teacher's certificate of grade as high as North Carolina elementary will be accepted from teachers with two or more years of experience. Certificates and other credentials must be submitted to the Committee on the Summer School by the time of registration. Each student who wishes to enroll for graduate credit should request the proper officer of the university or college he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record and of any graduate credit he may have. This transcript should be furnished by May 25 for enrollment in the first summer session and by July 1 for enrollment in the second summer session. An application blank for admission to graduate courses is available upon request for those who contemplate study toward an advanced degree. Undergraduate students should apply to the Director of the Summer School for a special blank to be signed by the dean of the college to which they desire their credits sent, certifying approval of the courses for which application is made. The Summer School reserves the right to reject any application or to cancel any registration without assignment of reason.

### CREDITS

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course of five hours a week for six weeks counts for two semester hours of credit, a course of seven and one-half hours a week for six weeks counts for three semester hours of credit, and a course of ten hours a week for six weeks counts for four semester hours of credit in Duke University. No student is allowed to take more than fifteen hours of work a week without the consent of the Director and of the instructor in whose department the student expects to do his major work.\*\* Except in the case of elementary laboratory science, in which eight semester hours may be completed in

\* N.B.—Students who register late are regarded as absent from all classes held prior to their registration. Late registration very seriously affects credits that may be obtained.

\*\* No student liable to suspension from the University under its rules regarding failure is permitted to enroll in the Summer School.



seven weeks, the University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer school of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only. A student of senior standing, however, may elect as many as eight semester hours of such elementary-skill work as drawing, public school music, and the like, or courses primarily for Freshmen and Sophomores, and obtain such professional credit as his State Department of Education will allow, not to exceed the maximum eight stated. The North Carolina State Department of Education disapproves of more than seven semester hours in one term of six weeks.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are limited in enrollment to twenty-five students, and during the summer consist almost exclusively of graduate students.

### EXAMINATIONS

The last two days of each term of six weeks are devoted to examinations. The University has no provisions for giving examinations *in absentia*, but students absent from examination for valid reason are permitted a liberal extension of time in which to return to the University for completion of credit.

The early opening of schools in which many summer school students happen to teach, sometimes necessitates the return home of students before the end of the second term of Summer School. The provision made for such students is as follows: Any student whose record is superior in a given course may with the consent of his instructor and the approval of the Director of the Summer School obtain a special examination not earlier than the fifth day before the regularly scheduled examination. If he takes such examination, the total credit in each course is reduced by one-sixth; in other words, the student is interpreted as having completed five weeks of Summer School, and his maximum allowable credit, therefore, is five semester hours.

### NEW REQUIREMENTS FOR MASTER'S DEGREES

The Southern University Conference consisting of leading educational institutions of the South interested in graduate work has agreed that Master's degrees in summer school should represent a full year of residence as the term residence is understood during the academic year, ex-

clusive of holidays and other interruptions of the academic year. This means a minimum period of thirty-three weeks and has these effects among others:

1. The extended period (of thirty-three weeks instead of thirty) makes it possible to give students preparing to write Master's theses a better opportunity to prepare for their thesis writing. In some departments research courses in which the student may do certain elementary preliminary work on his thesis have already been provided.

2. The period of thirty-three weeks conveniently divides into three periods of eleven weeks each, making it possible for the Summer School to begin nearly a week later and give the student a full period of eleven weeks well before the last day of August. For some time it has been hard to work in a full period of twelve weeks without serious inconvenience to many students because of early entrance for the first term or getting away late from the last term. Under the new plan students are advised not to try more than eleven weeks (eleven semester hours of credit) in one summer. However, for those students working under the old rules who wish to obtain twelve weeks' credit this summer, a full period of twelve weeks has been provided as announced in this bulletin.

3. The extended period makes possible a revision of the Master of Education degree in such a way as to abolish the thesis requirement and substitute work of probably greater value to the student. The requirements of the new Master of Education degree are set forth in the following paragraphs. It will be observed that they are probably more difficult than the old requirements, but the good student will probably have more when he completes them than he would have had under the old requirements including a thesis.

Students who started Master's degrees under regulations enforced prior to 1938 will have the normal time in which to complete their degrees under the old plan. The new requirements are sufficiently different from the old to make it hard for students with more than twelve semester hours of credit under the old plan to transfer to the new without loss. Anyone who transfers will be responsible for a minimum of thirty-three semester hours, or a residence period of thirty-three weeks. (Under "Graduate Instruction" two pages further along in this bulletin, the details of the new requirements are set forth.) The principal changes in the requirements for the Master of Arts degree are the new minimum residence period of thirty-three weeks (five and one-half terms of six weeks, or three "quarters" of eleven weeks), the more specific statement of undergraduate prerequisites (see the introductory statements under each department of instruction that offers a Master's sequence in Summer School), the requirement in most departments of a pre-thesis research course, in which, however, the student will ordinarily have some opportunity to get a start upon his thesis. This, in effect, gives the student nine weeks of supervision for his thesis at the same time that it clears up the status of some of the research courses.

The changes in the Master of Education requirements are more radical. They not only require a minimum residence period of three "quarters" or five and one-half summer terms of six weeks, but they abolish the thesis requirement heretofore made and substitute the following work with final written examination upon each part:

(A) Four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school, these courses being conducted on a plane analogous to Honors reading and described as follows:

**Education S300.**—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

**Education S304.**—The school as an institution—the place of the school in society, its history, and philosophy.

**Education S305.**—The nature, function, and organization of the curriculum.

**Education S317.**—The psychological principles of education—an advanced study of teaching, learning, and the learner.

(B) The work of the minor department, including any undergraduate prerequisite the student finds it necessary to study by supervised outside reading. (For example, many teachers of history and social studies have not had undergraduate work in government or economics or sociology, yet they wish to take their minor work in this missing department in order that they may have a better background for their teaching. Under the new plan, the Summer School can encourage this desirable strengthening of preparation in the subject matter by giving reading lists based on the preliminary undergraduate work in order that the student may have the background to go on with the minor of his choice. It would seem that a teacher of American history, for example, can by independent reading and a minimum of supervision obtain the elementary knowledge of American government necessary as a basis for minor work. It is the policy of the Summer School to encourage through the Master of Education degree independent reading as a basis for the minor as well as for the four "core" courses listed above.)

(C) Carefully defined major work in (a) public school administration, (b) public school supervision, (c) elementary education, or (d) secondary education, as the professional major. (It will be observed that the degree is intended for those who definitely desire their work for professional purposes. The Master of Education degree is, therefore, not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree.)

It is apparent that students in education are offered a choice between the Master of Arts degree with a major in education and the Master of Education degree. Either degree may be completed within a minimum residence of three summer "quarters" of eleven weeks each, or five and a half summer terms of six weeks each. Both degrees are administered by the Graduate School, and only graduate courses are approved for the

degrees. Students who subsequently decide to go on to the Doctor of Philosophy degree may have their credits for either Master's degree evaluated toward the higher degree.

## GRADUATE INSTRUCTION IN THE SUMMER SCHOOL

### ADMISSION TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability. A candidate for admission to graduate courses must instruct the proper official in the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School.

Unless applications and transcripts are submitted to the Dean of the Graduate School by May 25 for enrollment in the first summer session or by July 1 for enrollment in the second summer session, there can be no assurance that action can be taken upon the application before the time of registration. In such a case the student might have to be enrolled as an unclassified student.

A student who has been admitted to graduate courses and who expects to work toward an advanced degree must consult with the Director of Graduate Studies or other designated representative of the department in which he proposes to major before registering for courses. This can be done at the time of registration in summer sessions. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. If the student meets the requirements for admission to the Graduate School, as explained below, the graduate courses he has taken prior to formal admission will count toward a higher degree, provided that they are in accord with the requirements of the Graduate School for the degree and are acceptable to the major department.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most of the departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

### ADMISSION TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S."\* Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial num-

\* The system of grading used in the Graduate School is as follows: "E," or "Exceptional"; "G," or "Good"; "S," or "Satisfactory." "S" is interpreted in terms of "percentage" grading as being at least ten points above the conventional undergraduate "pass" of 70. "G" is normally interpreted as indicating that the student receiving it has standing within the upper twenty-five per cent of a department's students considered over a period of years.



ber of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies of undergraduate work must be satisfied before admission to the Graduate School.

### DEGREE OF MASTER OF ARTS

#### Language Requirements:

Candidates for the degree of Master of Arts are required either to have a reading knowledge of a foreign language, evidenced by examination or by transcript showing the completion of the third college year of the language, or toward a reading knowledge of French and German, evidenced by examination or by transcript showing the completion of second-year college French and college German.

The Duke Summer School regularly offers courses in first- and second-year French and German for those students who want to satisfy the requirements in this way. In any case, the languages offered by the student must be acceptable to the department in which he is taking his major work.

#### Minimum Residence Requirements:

For graduate students who take more than fifteen semester hours for the Master's degree in the Summer School the minimum residence requirement is thirty-three semester hours of graduate credit. Graduate students may not receive more than six semester hours of credit for work taken in one summer session of six weeks. The degree of Master of Arts or Master of Education thus can be earned in six such summer sessions by students who are well prepared for graduate work, or by careful planning of thesis residence in a minimum of five and one-half terms. Most students planning to complete a Master's degree within a series of summer schools should plan to spend six terms of six weeks each in residence.

All the work offered for the Master's degree, either in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning. Graduate courses begun earlier than six years before the completion of the work for the degree will not count either toward residence or course credit requirements.

#### Major and Minor Subjects:

Before selecting his major in a department, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work. This minimum is imposed by the Graduate School Council. A majority of the departments of instruction require at least eighteen semester hours of undergraduate work, and a few require more. The student therefore should read carefully the special requirements listed by each department in the *Graduate* or the *Summer School Bulletin*.

Each candidate for the Master's degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor subject approved by the major department, and the remaining nine semester hours in the major or minor subjects or in a department approved by the major department and by the Graduate School Council. All graduate students must take a minimum of six semester hours work in courses numbered 300 or above unless excused therefrom by the Dean of the Graduate School on the recommendation of the major department. No undergraduate course may be credited toward the degree of Master of Arts.

#### Thesis:

In the minimum residence requirement of thirty-three semester hours of graduate credit is included an allowance of six semester hours for a thesis. The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts must be approved by the department concerned

and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Four bound typewritten copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Each candidate is required to appear before the committee for an oral examination on the thesis and major field.

#### **CREDIT TOWARD THE MASTER'S DEGREE FOR WORK DONE ELSEWHERE**

No credit toward advanced degrees is given for university extension or correspondence courses.

Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other approved colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit will not shorten the minimum period of full-time resident study required at Duke University.

#### **SUGGESTED PROGRAM OF WORK TOWARD THE MASTER'S DEGREE**

A committee of the Graduate School Council has drafted the following recommendations respecting the student's program of work toward the Master's degree:

**First term:** two courses in the major department, usually from numbers 200 to 299.

**Second term:** one course in the major department, and one course in the minor department, or two courses in the minor department.

**Third term:** one course in the major department or one course in the minor department, and a general course in research methods if such a course is offered by the major department. A thesis subject should be tentatively selected and filed with the signed approval of a professor willing to supervise it, and the head of the major department (or the approved representative of the major department in charge of summer school work) before the beginning of the third week of the third term.

**Fourth term:** one course in the major department or remaining course in the minor department (if for any reason there is a remaining course in the minor). The remaining time of the fourth term should be spent in provisional work upon the thesis under at least preliminary supervision of the major professor. The filing of the title in the Graduate Office should be made permanent.

**Fifth term:** one course in the major department, and half time devoted to the thesis under the active supervision of the major professor.

**Sixth term:** same as the fifth.

This plan will require eighteen semester hours of work in the major department and six in the minor department, as were required by the former rules, plus a course in research methods in the major department (or substitution elsewhere provided below) and will allow one-half of the student's time for three summer terms to be devoted to his thesis work. By approval of the department and of the Dean of the Graduate School, the minor work may be enlarged at the expense of the work in the major department. If the major department does not offer a generalized course in research methods, some other course numbered 300 or above either in the major or minor department may be substituted with the approval of the Dean of the Graduate School.

#### **DEGREE OF MASTER OF EDUCATION**

The degree of Master of Education is granted to teachers, or others engaged in educational service, upon completion of the prescribed program



of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to candidacy for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including work in educational psychology and in history of education, educational sociology, or school administration. Three hours of general psychology may be counted as contributing toward these prerequisites.

Beginning in the summer of 1938, all students who are entering Duke Summer School for the first time to work for the Master of Education degree must conform to the new requirements, except that on recommendation of the Department of Education the Dean of the Graduate School may permit a student to submit a thesis carrying six hours of credit for six hours of the generalized readings prescribed and for the comprehensive examinations otherwise laid down. Those students who have already begun their course of study leading to the Master of Education degree will be permitted to transfer to the new plan if their credits indicate such transfer to be feasible and if the transfer has the approval of the Chairman or of the Director of Graduate Study of the Department of Education. In general, students who have completed more than twelve semester hours of work are strongly advised not to attempt the transfer, because of the serious loss of credit that they would usually suffer. Furthermore, all students contemplating the change should realize that they would be required to spend at least three additional weeks in residence and probably more by reason of the more specific requirements of the new plan. If, after reading the statement below of the new requirements for the Master of Education degree, the student still desires to adapt his program to the new regulations, he should address an inquiry for further information to the Director of the Summer School or the Chairman of the Department of Education. Students under the old plan in all other cases will be required to complete their work for the degree under the regulations in the *Summer School Bulletin of 1937*.

Candidates for the Master of Education degree must take a minimum of thirty-three semester hours of graduate work in residence at Duke University, classified as follows:

- (1) Twelve semester hours of generalized work in education, as explained below.
- (2) Six to twelve hours of minor work.
- (3) Nine to fifteen hours of an intra-departmental, or "professional," major.

The twelve semester hours of generalized work, analogous to Honors reading, will be followed by a comprehensive written examination at the close of the thirty-three weeks. This work will be based upon four courses of three semester hours each, consisting of Education S300, S304, S305, and S317, of which the student must take one and will be permitted to take as many as two in class, although the readings and examination will go beyond class work. For the two or three courses the student does not take in class, he will be allowed free time in his third and subsequent terms of summer school.

For the six to twelve semester hours of minor work, the following suggestions are offered:

(a) For those candidates whose intra-departmental, or "professional" major is public school administration, six hours in political science, economics, sociology, or other work especially listed as "related courses in other departments for majors in public school administration."

(b) For those whose professional major is public school supervision, six to nine semester hours in psychology, educational psychology, or a com-

bination of the two, or sociology, or in specifically designated "related courses" for supervisors.

(c) For those whose professional major is secondary education, six to twelve hours in their teaching field(s), with twelve hours strongly recommended.

(d) For those whose professional major is elementary education, six semester hours in psychology, educational psychology, or an approved combination of the two, or in child welfare and development (wholly in sociology, or partly sociology and psychology or educational psychology, if a satisfactory combination can be worked out).

The nine to fifteen semester hours of the professional major may be in the field of public school administration, public school supervisions, secondary education, or elementary education.

At any time after the completion of his minor and his professional major, the student can take the general examinations on these two phases of his program on the days designated for them. Upon the fulfillment of all residence requirements, he will be given a comprehensive written examination upon the twelve hours of generalized readings. Any of these examinations may be rejected upon the grounds of poor usage of English.

As in the case of the requirements for the Master of Arts degree, all work presented for the degree must be completed by the candidate within a period of six years from the date of beginning. Graduate credits from other approved institutions may be accepted up to a maximum of six semester hours, but such acceptance of credits will not lessen the requirements of study in residence at Duke University.

#### DEGREE OF DOCTOR OF PHILOSOPHY

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult, or enter into correspondence with, the Dean of the Graduate School and the heads of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field. Credit for one year of graduate work done in summer school sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work.

#### THESIS WRITING IN SUMMER SCHOOL

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in Summer School should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The subject of the thesis must be approved by the instructor who undertakes the supervision. The instructor's decision as to whether the topic is suitable, or the student is prepared to develop it, or the instructor prepared to supervise it, is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not com-

plete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.

4. A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of \$25.

5. Students enrolling for thesis supervision during the Summer School are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically complete. Similarly, instructors in Duke University who are not teaching in the Summer School are not expected to undertake the supervision of theses written by summer school students.

6. Students of the academic year who do not complete theses begun prior to Summer School are not accepted for summer school enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer School are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer School.

### ROOM AND BOARD

Board and room for a term of six weeks may be secured in the men's dormitories at the rate of \$51.50 for a single room, \$46.50 for each occupant, with two in a room, or \$59.00 if double room, alone, is engaged. On account of extra service the rate in the women's dormitories is one dollar a term higher; that is, \$52.50 for a single room, \$47.50 for each occupant, with two in a room, and \$60.00 for a double room, alone. These rates both for men and women are in each case one dollar lower than the total for board and room counted separately. Many of the rooms on the East Campus are single rooms; on the other hand, on the West Campus there are very few single rooms, most of these on the third floor. During the first term, graduate students will live on the West Campus, and undergraduates on the East. During the term when all students will live on the West Campus, separate dormitories will be reserved for graduate students and for undergraduates. There is no dormitory reserved for married students, and under no circumstances will children be admitted to the dormitories. Students who desire to bring children, or married students who desire rooms, should write the Director for a list of private rooming places where suitable accommodations may be obtained. Occupants of University rooms furnish their own bed linen, blankets, pillows, and towels. All other essentials are supplied by the University.

The rules and regulations in all dormitories are substantially the same as those for the regular academic year; but *in the graduate dormitories*

*all radios, phonographs, and other noisemaking appliances are strictly forbidden.*

All occupants of University dormitories are advised to board in the regular dining room of the Union, where at meal time there is the opportunity to meet with fellow-students, and where, because board is furnished at cost, the greater number of students guarantees better board for all. The service is cafeteria plate-service. Men who live in the dormitories but desire to board elsewhere than in the regular dining room will pay room-rent at the rate of \$17.50 for a single room, \$12.50 for each occupant, with two in a room, or \$25.00 for a double room, alone; and women, at the respective rates of \$18.50, \$13.50, and \$26.00. Students who room off the campus but desire board in the Union may obtain it for thirty-five cents a meal, or \$35.00 for the six weeks. Students who present their receipted room reservations at the time of purchasing meal-tickets for the term are allowed a discount of one dollar from the \$35.00 rate for their meal-tickets, as stated above, this accounting for the combination room-and-board-rate quoted above. Since the sole purpose of this discount is to encourage a larger volume of business in the regular dining room and thereby to obtain the best possible board for the large majority of students who take their meals there, it is not effective in the Union Coffee Shop, where the more expensive *a la carte* service may be obtained by those who prefer it.

### FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$3.00 for each college-credit hour, or \$4.00 for each semester hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$17.50 per term. Students in the sciences pay the laboratory fees required in regular term, and students writing theses pay the regular commencement charges at the time of receiving their degrees, and the special supervision fee of \$25.00.

Major expenses may be estimated as follows for each term:

Registration .....	\$17.50
Room-rent and board .....	47.50
Recreation ticket .....	2.00

Total major expenses to teachers .....	\$67.00
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In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$66.00. To these totals should be added the tuition fee of \$24.00 charged students other than teachers in the public schools and also charged teachers who have already received four terms exemption, about \$7.00 for books, and probably \$3.00 for miscellaneous expenditures. All claims for exemption from tuition should be filed at the time of registration.



### RESERVATION IN ADVANCE

Classes are of limited enrollment. All applications for registration in classes, as well as applications for rooms, are filed in the order in which they are received. Each application for a reservation of courses should be accompanied by a check for \$5.00 in part payment of the registration fee unless room-rent is enclosed. *No specific rooms are assigned except upon receipt of full room-rent.* Floor plans of dormitories will be sent upon request to students who wish to make specific reservations of rooms. Because of the rapid growth of the Summer School, making it uncertain that late applicants will be able to find room on the campus, *students are urged to reserve specific rooms in advance.* They may reserve specific rooms by paying, at the time the reservation is made, the regular charge of \$17.50 (or \$18.50) for a single room, \$12.50 (or \$13.50) for a room with a roommate, or \$25.00 (or \$26.00) for a double room alone. Specific room reservation for the first term may be made at any time. Since the total registration for the first term affects the decision as to which buildings are to be used for the second term, specific reservations for second term should not be requested before July 10. Students who pay their room-rent in advance are allowed until May 25 to select a roommate. Adjustments may be made as to roommates within the first three days of the term. No room may be reserved by more than two students, but adjoining rooms may be reserved by groups who desire to be together. Students who enroll for the first term have priority in reserving their first-term rooms for the last term. The University reserves the right in the interest of the Summer School and the other students to cancel any reservation of courses or room without assignment of reason. Any student making deposit for reservation or room-rent is entitled to withdraw with full refund at any time within five days prior to registration without assignment of reason.

During the first term all undergraduate classes, except those in accounting, chemistry, forestry, and physics will meet on the East Campus; all other work will be offered on the West Campus. During the second term, all classes will meet on the West Campus. Each campus has its complete equipment immediately available—classrooms, library, dining rooms, health department and recreational facilities, bus service to the other campus and to town, etc. Since the two campuses are about a mile apart, students are advised to live on the campus where their classes will be held. Exception is made in the case of students of undergraduate-college age, for whom rooms will be reserved only on the East Campus during the first term.

### APPOINTMENTS BUREAU

A Teachers' Appointments Bureau is maintained for the benefit of teachers desiring a change of position. There is no charge for this service.

### RELIGIOUS SERVICES

University religious services are held each Sunday morning at 11:00 o'clock, to which all students are invited. In the summer of 1938 the student choir, a voluntary organization, enrolled over two hundred students. A series of organ recitals are also given Sunday afternoon and at other times each week in the University Chapel.

### RECREATION AND ENTERTAINMENT

At the time of registration every student receives a season ticket to all recreation and lecture programs. In addition to admission to special lectures, and other features of entertainment provided, this ticket entitles the student to use of the tennis courts and of the swimming pools, which are open an hour and a half daily for various groups of students; also to social events limited to students. There are also an evening play-hour sponsored by the Department of Physical Education and a Sunday evening "sing" that has grown to be a tradition among the quadrangle students.

Mr. Anton Brees, Carillonneur of the Mountain Lake Singing Tower, Lake Wales, Florida, will give recitals on the fifty-bell carillon of the University at stated times twice a week during the Summer School.

The national honor society in education, Kappa Delta Pi, maintains a weekly forum to which all students are invited.

State clubs, organized by students from the states best represented in the student body, chiefly the students from West Virginia and Pennsylvania southward to Florida and Mississippi, co-operate with the Social Director to provide wholesome recreational life for the students. At the beginning of each term the management of the University Union co-operates with the state clubs to provide an all-state dinner. The first Tuesday evening of each term is set aside for the opening general assemblies of students and Faculty.

### COACHING SCHOOL

The Athletic Department of the University conducts a one-week coaching school for high-school coaches, July 24-29. Registration for the school is \$10.00. The courses will be offered by Coach Wallace Wade and his staff and will include football, basketball, and track.

### AFFILIATED SUMMER SCHOOLS

The Junaluska Summer Schools, Inc., Lake Junaluska, N. C., is an independent school affiliated with Duke University. It will offer undergraduate courses in field botany, elementary education, English, history, philosophy, sociology, and religion. The only graduate work offered toward the A.M. degree will be in the field of botany, but the Junaluska School of Religion offers credits toward the B.D. degree. (For further information address Dr. Paul N. Garber, Director, Duke University, Durham, N. C., and see description of courses, pages 60-64, this bulletin.)



Junaluska Summer School will begin its single term June 9 and close July 21, making it possible for a student attending Junaluska to transfer to Durham in time for the second term, July 24 to September 2.

### **SCHOOL FOR WORKERS IN CHILDREN'S HOMES AND ORPHANAGES, JULY 24 TO AUGUST 12**

In co-operation with the Tri-State Conference of Orphanage Workers the Summer School will operate a three-weeks school for the in-service training of teachers and personnel employees in the children's homes and orphanages of Georgia and the Carolinas. The program will consist of a regular ninety-minute period daily in the psychological development of the child, a sixty-minute lecture daily, followed by open forum discussions on problems connected with child development, social service, and institutional administration, and evening lectures of broad cultural interest. Monday, July 24, will be registration day, and lectures will begin that evening. Monday, July 31, will be a holiday in order to give the students attending opportunity to visit near-by points of interest in their work. These students will receive the same consideration as teachers in the public schools and will be exempt from tuition charges. Their total expense for board, room, and fees, with two persons to a room, will be \$32.00 for the three weeks, or \$38.00 if room alone is engaged. A certificate of attendance and of work completed will be given at the close of the school, but it has not been arranged to offer credit toward college degrees for the work. For further information, address the Director of the Summer School, Duke University, or Rev. E. F. Gettys, President, Tri-State Conference of Orphanage Workers, John De la Howe School, McCormick, South Carolina.

### **INSTITUTE FOR WORKERS IN GUIDANCE, JULY 25 TO AUGUST 5**

It is planned to have an intensive institute of two weeks for social workers, teachers, and school officials interested in the problems of educational and vocational guidance. For complete program, write Director of the Summer School after April 1.

### **SUMMER SCHOOL OPPORTUNITIES FOR GRADUATE STUDENTS**

A majority of the students in the Summer School are graduates of standard colleges, most of them supervisory officials and teachers in the public schools. Departments of instruction, therefore, offering courses related to the common secondary-school curriculum have built up regular sequences of graduate work continuing through a series of summer schools in which graduate students may enroll with reasonable assurance that sufficient work will be offered to enable a properly qualified student to complete Master's requirements easily within the period permitted by the University. Departments in which sufficient demand for graduate courses has developed to enable students to complete Master's degrees are Botany,

Economics, Education, English, French, History, Mathematics, Political Science, Psychology, Religion, Sociology, Spanish, and Zoology. It is intended to add complete sequences in other departments as rapidly as demand justifies. The Department of Religion offers work toward the B.D. degree, and students in that department can also obtain B.D. work in the affiliated summer school at Lake Junaluska. In the Department of Education complete sequences of work for the Master's degree are offered in the divisions of public school administration, public school supervision, secondary education, educational psychology, and elementary school education. This variety of offerings should cause students in this department to be especially careful to select a unified course.

In all departments a graduate student must select his minor with the approval of his major department. Under "Courses of Instruction," pages 30-58, this bulletin, specific regulations and suggestions of departments are given. It is important for all degree candidates to choose their courses according to some unified plan. Mere accumulation of more or less unrelated credits in various divisions of a department with a minor in some department only remotely related to the student's major work will not be accepted as meeting requirements for a graduate degree. Students are advised to choose their first term's work along the line of their major interest and then each succeeding term exercise increasing care in advising with their major professor and the Dean of the Graduate School as to properly related work.

### **SPECIAL NOTICE TO NORTH CAROLINA TEACHERS**

The North Carolina State Department of Education has requested that publicity be given to the following announcement:

As of July 1, 1940, and thereafter, the Class A Certificate built up from a lower grade certificate will be based upon a satisfactory completion of the requirements for a degree from a standard college, along with, or in addition to, the specific certificate requirements. It is suggested that those teachers in service who may not reasonably be expected to qualify for the Class A Certificate prior to September 1, 1939, arrange their program of studies in co-operation with the institution from which they would like to obtain the degree.

Teachers who are expecting a change in their certificate for 1939-40 as a result of their summer school work, should wait for four weeks before making any inquiry of the State Department of Public Instruction. The number of records handled makes it reasonable to assume a month's time will be required for issuing the certificates growing therefrom.

Teachers who are expecting their certificates to be raised as a result of summer school attendance should not send their old certificates to the State Department of Public Instruction. This is not necessary for the issuance of the new certificate.

Teachers should not send to the State Department of Public Instruction their personal reports of summer school work. The report must come direct from the institution, and it will be sent by the institution if the teacher has properly registered, giving exact name, serial number of certificate held, etc.

Any North Carolina public school teachers, therefore, who do not expect to raise their certificates under the present plan before September 1, 1939, should be especially careful to take the precise degree requirements of the institution they attend this summer.

Undergraduate teachers planning to register for Bachelor's degrees from Duke University should correspond with Dr. Walter K. Greene, Dean of Undergraduate Instruction, and bear in mind the following elementary minimum requirements for all groups of studies leading to the A.B. degree: English, six semester hours; natural science, eight; economics, history, or political science, six; one foreign language completed through the third college year, twelve or eighteen semester hours; and religion, six.

**COURSES EMPHASIZING PUBLIC SCHOOL CURRICULUM  
RECONSTRUCTION OFFERED IN THE SUMMER OF 1939**

Courses in public school curriculum reconstruction will be emphasized in the summer of 1939 as in the four preceding summers. Interested persons are referred to the courses listed under Secondary and Elementary Education, on both graduate and undergraduate levels. More than three hundred teachers in the public schools were enrolled in these courses in the summer of 1938.

## COURSES OF INSTRUCTION

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### EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

The following abbreviations occur: the numeral *I* means that the course comes the first sixty-minute period daily, beginning at 8:25; *2*, the second sixty-minute period, beginning at 9:45; *3*, the third sixty-minute period, beginning at 11:30. *A* means that the course comes the first eighty-five minutes daily, beginning at 8:00; *B* means that the course comes at the eighty-five-minute period, beginning at 9:45; *C* means that the course comes at the eighty-five-minute period beginning at 11:30; *D* means that the course comes at the eighty-five-minute period beginning at 2:30; *I* means that the course is offered the first term; *II*, that it is offered the second term, beginning July 24; *I, II*, that the course is offered either term. *E* means that the course is offered on East Campus; *W* on West Campus. Unless stated to the contrary, all classes are scheduled for the West Campus; except that for the first six weeks undergraduate classes, those numbered below 200, will be scheduled for the East Campus unless statement is made to the contrary. For complete schedule of rooms and courses, students should consult official bulletin boards at time of registration.

Periods 1, 2, and 3 do not conflict; and periods A, B, C, and D do not conflict; but period A conflicts with 1, B with 2, and C with 3. Terms I and II do not conflict.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

### THESIS COURSES FOR MASTER'S DEGREE CANDIDATES

It is important for every candidate for a Master of Arts degree to plan for his thesis as soon as possible after he completes his first summer school. (See suggestions for planning theses, pages 22-23, this bulletin.) Special attention is called to Education S234X, S300, S300X, S309, S322, S333X, Chemistry S275X, English S301, S307X, S308X, S327, S329, S331, French S340, History S306X, S308B, S315, S317, S325, S330, S333, S337, Mathematics S389X, S390X, Physics S353X, Religion S366, Sociology S340, Spanish S372, and Zoology S353. A properly qualified student, however, may with the approval of the instructor and the head of his department attach himself to any graduate course for thesis supervision.

### BIOLOGY

See courses listed under Botany and Zoology.

### BOTANY

For admission to candidacy for the Master's degree in Botany, students must have completed a minimum of eighteen semester hours of biological

science, including six semester hours of botany in courses numbered above one hundred. Students who have not yet had the minimum eighteen hours, however, may enter higher courses by permission of the instructor, if he is convinced that they can carry the work, for undergraduate credit, and may count such work toward the eighteen hours necessary for candidacy.

**S214. Structure and Classification of Algae and Fungi.**—A comparative study of the forms of plants included in the division Thallophyta. Some time is devoted to collecting and identification. *Lecture 1, laboratory 9:45-11:30 daily, I. 3 s.h. (Laboratory fee, \$2.50.)* MR. BLOMQUIST

**S225. Special Problems.**—*Lecture 2:00-2:40, laboratory 3:00-5:00 daily, I, II. Credit to be arranged.* STAFF

**S252. Plant Physiology.**—The principal physiological processes of plants, including water relations, photosynthesis, digestion, translocation, respiration, and the relation of these processes to plant growth. *A, B, other hours to be arranged, II (first three weeks). 3 s.h. (Laboratory fee, \$5.00.)* MR. KRAMER  
(It will be observed that students remaining from the first term can complete this course in the first three weeks of the second term.)

**S255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. *Arr., I. 3 s.h. (Laboratory fee, \$2.50.)* MR. BLOMQUIST

**S359. Research in Botany.**—Individual investigation in the various fields of botany. *Credit to be arranged. I, II.* STAFF

*The following courses are planned at the Marine Laboratory in Beaufort, N. C.:*

**S225. Special Problems: Ecology, Taxonomy.**—*I, II.* MR. OOSTING

**S256. Plant Ecology.**—*II.* MR. OOSTING

**S359. Research: Ecology, Taxonomy.**—*I, II.* MR. OOSTING

For particulars as to expense, etc., write the Director of the Summer School or Dr. H. L. Blomquist, Chairman of the Botany Department, Duke University, after April 15. If for any reason these courses offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

## CHEMISTRY

**S1. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required that students taking this course shall have taken elementary physics either in high school or in college. *Recitation daily, 1; lecture daily, 11:30; laboratory hours to be arranged, II (July 18 to August 10). 4 s.h. (w) (Laboratory fee, \$7.00.)*

MR. R. N. WILSON AND MR. BRADSHAW

NOTE 1. Unless stated to the contrary, all classes are scheduled for the West Campus; except that for the first six weeks undergraduate classes, those numbered below 200, unless specifically indicated otherwise, will be scheduled on the East Campus. For complete schedule of rooms and classes students should consult official bulletin boards at time of registration.

NOTE 2. Unless a different limitation is stated, all courses numbered 200 or above are limited in enrollment to twenty-five students, those numbered 300 or above are limited to fifteen, and thesis seminars to ten. In exceptional cases by the consent of the instructor, the Graduate Council may extend those limitations to include not more than four additional students.



**S2. General Inorganic Chemistry.**—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. Prerequisite: Chemistry S1. *Recitation daily, 1; lecture daily, 11:30; laboratory hours to be arranged, 11 (August 11 to September 2).* 4 s.h. (w) (Laboratory fee, \$7.00.)  
MR. R. N. WILSON AND MR. BRADSHAW

**S61. Qualitative Analysis.**—A study of the reactions of acids, bases, and salts in solution as applied to the qualitative analysis of mixtures of inorganic compounds of the more familiar elements. *Lecture or recitation daily, 9:00-10:30; laboratory daily, 10:40-12:10 and 2:00-5:00, 1 (June 12 to July 8).* 4 s.h. (w) (Laboratory fee, \$7.00.)  
MR. D. HILL AND MR. STUCKEY

**S70. Quantitative Analysis.**—A number of representative quantitative analyses are carried out in the laboratory, and the underlying theory is taken up in the lectures. *Lecture or recitation daily, B; laboratory daily, C and 2:00-5:00, 1, 11 (July 10 to August 5).* 4 s.h. (w) (Laboratory fee, \$7.00.)  
MR. SAYLOR AND MR. MARYOTT

**S151. Organic Chemistry.**—An introduction to the study of carbon compounds. Compounds of aliphatic series form the basis of lectures, discussions, and laboratory experiments. Prerequisites: courses 61 and 70, except by permission of the instructor. *Lecture 8:30, recitation 9:45 daily; laboratory 2:00-5:00 daily except Saturday (June 12 to July 8).* 4 s.h. (w) (Laboratory fee, \$8.50.)  
MR. HAUSER AND MR. BRESLOW

**S152. Organic Chemistry.**—A study is made of compounds of the aromatic series, and of carbohydrates and proteins. Prerequisite: course S151. *Lectures, recitations, and laboratory as in S151, 1, 11 (July 10 to August 5).* 4 s.h. (w) (Laboratory fee, \$8.50.)  
MISS BROWN AND MR. YOUNG

**S275X Thesis Research.**—Research in the fields of physical or organic chemistry. Open only to those students whose research programs for the A.M. or Ph.D. degrees have been approved by the department and by one of the instructors in charge of the course. *Schedule to be arranged (first eight weeks), 1, 11. 2 to 8 s.h. (Not more than one semester hour of credit per week full-time schedule, or one semester hour each two weeks for half-time schedule.)*  
MR. BIGELOW AND MR. HOBBS

(In lieu of regular fees in this course, students enrolling for four semester hours or less pay simple registration of \$17.50; all others pay special registration fee of \$25.00. Laboratory fees are arranged with the instructor according to materials used or destroyed.)

NOTE.—S275X, as a course to give instruction in methods used in the investigation of original problems, is open to graduate students and even to undergraduate seniors who have had courses 70 and 151-152. Students other than thesis students, however, must not only have the approval of the instructor but also pay full registration, tuition, and laboratory fees.

## ECONOMICS

For admission to candidacy for the Master of Arts degree in Economics, the student must meet the general requirements for admission to the Graduate School and must have had twelve semester hours in economics, including Principles of Economics. Twelve additional semester hours must be offered in political science, sociology, or history.

Every candidate for a Master's degree must elect six semester hours of graduate work in Economic Theory. The other twelve hours in economics should be elected as follows: six hours in the field in which he writes his Master's thesis and three hours in each of the two other fields. For purposes of concentration, the fields in addition to Economic Theory shall be



Finance, Economic History, History of Economic Thought, and Social Economics. The minor of six semester hours must be taken in political science, sociology, or history, or in some other department approved by the major department.

**S51. Principles of Economics.**—A short course in the essential principles of economic science. Students who complete this course satisfactorily may be admitted to Economics 103 and 105 during the college year 1939-40. *B, I. 3 s.h.*

MR. T. S. BERRY

**S52. Principles of Economics.**—A continuation of Economics S51, with emphasis on economic problems. (This course will not count as part of the minimum economic requirements for graduation until the equivalent of S51 has been completed. It will, however, count as elective credit.) *B, II. 3 s.h.*

MR. KEECH

**S57-S58. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. *Period C will be used as a laboratory period. A, B, C, I. 6 s.h.*

MR. SHIELDS

**S115. Economic Geography: Teachers' Course.**—A study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the works of man, as environmental factors. *A, I; C, II. 3 s.h.*

MR. LANDON (first term)

MR. KEECH (second term)

**NOTE: Conservation of Natural Resources.**—Teachers especially desiring to take courses dealing with the conservation of national resources are advised to elect S115, or S116 below. Teachers with good background in geography should elect S116 if they can take only one of the two.

**S116. Economic Geography and Industrial Organization.**—A study of the economic resources and industries of the world; a general appraisal of the natural and the cultural environment; agricultural and manufacturing industries and their location; the conservation of natural resources; world aspects of resource ownership and utilization. *C, I. 3 s.h.*

MR. LANDON

**S158. Insurance.**—A study of (1) the economic services, (2) the important principles and practices, and (3) the principal legal phases of life, fire, health, and accident, employers' liability, title, credit insurance, etc. *A, I. 3 s.h.*

MR. T. S. BERRY

**S171-S172. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting S57-S58. *Period C will be as a laboratory period. A, B, C, I. 6 s.h.*

MR. BLACK

**S181. Business Law: Contracts, etc.**—The fundamental principles of law as applied to common business transactions. *C, I. 3 s.h.*

MR. SPRINGER

**S182. Business Law: Partnerships, etc.**—A continuation of S181, dealing with agency, bailments, sales, negotiable instruments, partnerships, and bankruptcy. Open for enrollment to those who have had the equivalent of course S181 or are carrying that course concurrently. *D, I. 3 s.h.*

MR. SPRINGER

**S203. Money and Banking.**—After a preliminary study of monetary history and theory, together with an account of the development of credit instruments, there follows a more extended presentation of the theory and practice of banking. *D, I. 3 s.h.*

MR. WELFLING

**S211. History of Political Economy Prior to 1800.**—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. *A, I. 3 s.h.* MR. HAMILTON

**S236. Public Finance.**—This course deals with public expenditures, public revenues, public debts, and financial administration. *C, I. 3 s.h.* MR. WELFLING

**S239. Prices.**—A theoretical study of the forces governing the commodity price level and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorders or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany, to the world-wide collapse of prices after 1929, and to the behavior of prices in recession and recovery. *B, I. 3 s.h.* MR. HAMILTON

**S256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation and to interference in labor disputes. *B, II. 3 s.h.* MR. DEVYVER

**S257. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. *A, II. 3 s.h.* MR. DEVYVER

## EDUCATION

For admission to candidacy for the Master of Arts (A.M.) degree with major in Education, or for the Master of Education (M.Ed.) degree, students must, in addition to meeting the general requirements for admission to the Graduate School, meet the following specific requirements: 1. Eighteen semester hours of acceptable prior work in Education; 2. Twelve semester hours acceptable prior work in a minor field (Exception: if Psychology or Sociology is offered for the minor, six semester hours of work completed after entering the junior year in college will be accepted).

Graduate courses in the Department are grouped under the following subdivisions: Public School Administration, Public School Supervision, Secondary Education, Elementary School Education, and Educational Psychology. Every candidate for the Master of Arts degree in the Department should elect at least twelve semester hours in the one of these fields in which he intends to write his thesis and the remainder of his work, including the six semester hours in his minor, with the approval of the proper division adviser. Dr. Proctor is adviser to students in School Administration, Dr. Proctor, Dr. Carr, and Dr. Scates advise majors in Supervision, Dr. Carr is adviser in Elementary Education, Professor Childs advises in Secondary Education, and Dr. Brownell, Dr. Scates, and Dr. Easley advise in Educational Psychology. Candidates for the M.Ed. degree under the new requirements should read with special care the regulations of the Graduate School as set forth on pages 20-22, this bulletin.

### PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

**S224. Current Problems in Public Education as Revealed through School Surveys.**—A study of recent developments in public education as revealed through school surveys and resulting from the survey movement. Section 1 recommended for high-school teachers, principals, and school administrators; Section 2 recommended for elementary-school teachers, principals, and supervisors. *Section 1, C, I; Section 2, D, I. 3 s.h.* MR. GAMBLE

**S234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problems of gradation and classification of pupils. (For these two problems, see course S233 listed under Supervision.) For first-term students, Section 1 recommended for principals of high schools, and teachers of five or more years' experience; Section 2 recommended for teachers of less than five years' experience. *Section 1, A, I; Section 2, C, I, II. 3 s.h.*

MR. P. H. GWYNN (*first term*)

MR. GOLDTHORPE (*second term*)

**S293. Problems of the Teaching Personnel.**—Possibilities for growth of teachers co-operating with administrative officers for (1) the better solution of classroom problems; (2) effective use of plant, records, health guidance agencies; and (3) building sound attitude toward personnel management, tenure, supply and demand of teachers, placement, compensation, community co-operation, professional growth, and retirement. *B, I. 3 s.h.* MR. OVERN

**S323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *C, I; B, II. 3 s.h.*

MR. GOLDTHORPE (*first term*)

MR. FOWLKES (*second term*)

**S333X. Thesis Seminar: Research in School Administration.**—For thesis students and others by permission. *Credit to be arranged. C, I, II.*

MR. PROCTOR (*either term*)

MR. OVERN (*second term*)

**S343. State and County School Administration.**—A study of the state and county organization of public schools, emphasizing underlying principles. (Enrollment in this course is limited to students who have already had at least six semester hours in public school administration. Students who are expecting to write theses the summer of 1939 in the field of public school administration will be given preference in enrollment.) *A, I, II. 3 s.h.*

MR. GOLDTHORPE

**S253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration. *C, II. 3 s.h.*

MR. PUNKÉ

**S363. City School Organization and Administration.**—Problems confronting the administrative officer in local schools, such as relations of superintendent with board and public, organization of schools, development of curricula, selection and promotion of teachers, etc. *B, I, II. 3 s.h.*

MR. PROCTOR

**S373. Business Problems of School Administration.**—Basic principles underlying the business administration of public schools; and the solution of practical problems, etc. *A, II. 3 s.h.*

MR. OVERN

Other courses accepted, not to exceed a total of nine semester hours, as work in School Administration are the following, when the student has the approval of his major professor: S209, S232, S233 or S233A, S273, S287, S288,

See footnote, p. 31, as to limitation of the class enrollments in graduate courses.

S293, S304, S305, listed under the division of Supervision; S208, S258, listed under Educational Psychology; S205, S206, S216, listed under Secondary Education; and S207, S212, S222, listed under Elementary Education.

#### PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

**S209. Statistical Methods in Education.**—A course intended to familiarize teacher, supervisor, and administrator with the statistical method of treating educational and social data, so as to enable them to interpret and use the results of recent investigation in the science of education. Presented primarily from the point of view of the classroom teacher. *A, II. 3 s.h.* Mr. ODELL

**S222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. (Not open to students who had S242 in the summer of 1935 or 1936.) *Section 1, A, I; Section 2, B, I. 3 s.h.* Mr. HILLMAN

**S224. Current Problems in Public Education as Revealed through School Surveys.**—*Section 1, C, I; Section 2, D, I. 3 s.h.* Mr. GAMBLE

**S232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. *A, I. 3 s.h.* Mr. OVERN

**S233. Administrative Pupil Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and making of reports. The study includes a consideration of individual differences, promotion, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. (Not open for enrollment to students who have had course S233A.) *C, II. 3 s.h.* Mr. FOWLKES

**S273. Problems of High-School Supervision.**—A consideration of such problems as aims and purposes of high-school supervision, elements of an effective supervisory program, program of supervision for city and rural schools, the administration of supervision. *Section 1, A, I, II; Section 2, B, I. 3 s.h.* Mr. HIGHSMITH (*first term*)  
Mr. HOWARD (*second term*)

**S287. Problems of Mentally and Educationally Retarded Children.**—The causes, types, and degrees of mental retardation; psychological theories of mental deficiency; the education of slow learners in regular and special classes; the organization, objectives, curriculum, and teacher of the special class; the social and eugenical bearings of mental deficiency. The educational problems receive major consideration. *Section 1, A, I; Section 2, B, I. 3 s.h.* Mr. WALLIN

**S288. Problems of Mental Hygiene and Education.**—The problems, objectives, scope, factors, and techniques of mental hygiene, particularly with reference to its educational and social implications; the prevention of hampering personality difficulties and wholesome personality development; types of adjustment difficulties in different types of children, especially in the normal, and their preventive and remedial treatment; the mental hygiene of teaching and learning. *Section 1, C, I; Section 2, D, I; A, C, II (first three weeks). 3 s.h.* Mr. HOLSOFFLE (*first term*)  
Mr. WALLIN (*second term*)



**S293. Problems of the Teaching Personnel.**—*B. I.* 3 s.h. MR. OVERN

**S304. The School as an Institution.**—The place of the school in society, its history, and philosophy. This is one of the reading courses required for the Master of Education degree of all students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class, and reading students desiring to attend the class as auditors are welcome. Other students may take the course for three semester hours credit, as any other graduate course listed. *D, I, II.* 3 s.h. MR. PUNKÉ

**S305. The Nature, Function, and Reorganization of the Curriculum.**—This is one of the reading courses required for the Master of Education degree of all students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class, and reading students desiring to attend the class as auditors are welcome. Other students may take the course for three semester hours credit, as any other graduate course listed. *A, I.* 3 s.h. MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in School Supervision are the following, when the student has the approval of his major professor: S234, S343, S363, listed under the division of Administration; S300, S208, S218, S258, S317, listed under Educational Psychology; S205, S206, S216, S226, S236, S246, S266, S276, listed under Secondary Education; and S207, S212, S237, S247, S257, listed under Elementary Education.

#### EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

**S208. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course S258 or six semester hours of other work in educational psychology or psychology. *A, I.* 3 s.h. MR. ODELL

**S212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common-school subjects. *B, II.* 3 s.h. MR. BOND

**S216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. *A, I, II.* 3 s.h. MR. BOND

**S217. Advanced Educational Psychology.**—A systematic survey of the field of Educational Psychology. Required of all majors in Educational Psychology. *B, II.* 3 s.h. MR. A. M. JORDAN

**S218. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of special significance to teachers in the elementary schools. An advanced section of S118, not open for enrollment to students who have credit for that course. Prerequisite: six semester hours of psychology or educational psychology. *C, I, II.* 3 s.h.

MR. EASLEY (*first term*)  
MR. A. M. JORDAN (*second term*)

**S227. Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. *A, I, 3 s.h.* MR. EASLEY

**S237. Investigations in Reading.**—A summary of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing, diagnosis, and supervision; emphasis on problems requiring further investigation. *B, I, II, 3 s.h.* MR. TIREMAN

**S237A. Investigations in Reading: Primary Section.**—A special section of S237 intended for teachers in the primary grades. *A, I, 3 s.h.*

MR. TIREMAN

**S247A. Investigations in Arithmetic: Primary Section.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. *B, I, 3 s.h.* MISS JOHN

**S247B. Investigations in Arithmetic: Grammar Grades Section.**—A special section of S247 intended for teachers in the grammar grades. *A, I, 3 s.h.*

MISS JOHN

**S257. Investigations in Language and Elementary School English.**—*Section 1, C, I; Section 2, D, I, 3 s.h.*

MR. EVANS

**S258. Educational Measurements.**—A study of the purposes and uses of standardized and informal tests and scales with special emphasis on their use in the improvement of instruction. *B, I, II, 3 s.h.*

MR. ODELL

**S287. Problems of Mentally and Educationally Retarded Children.**—*Section 1, A, I; Section 2, B, I, 3 s.h.*

MR. WALLIN

**S288. Problems of Mental Hygiene and Education.**—*Section 1, C, I; Section 2, D, I; A, C, II (first three weeks). 3 s.h.*

MR. HOLSOPPLE (*first term*)

MR. WALLIN (*second term*)

**S309. Research in Educational Psychology.**—Students writing theses in educational psychology should attach themselves to this seminar for supervision and residence credit, as well as students with research problems desiring course credit. *C, I, 3 s.h.*

MR. BROWNELL

**S317. The Psychological Principles of Education.**—An advanced study of teaching, learning, and the learner. This is one of the reading courses required for the Master of Education degree of all students beginning work after June 1, 1938. Selected problems guiding the reading of students will be discussed in class. *B, I; B, D, II (first three weeks). 3 s.h.*

MR. BROWNELL

**S300. Introduction to Educational Research.**—Primarily a pre-thesis writing course designed to be liberalizing as well as technical. The general purpose is to give the student an overview of research, acquaint him with the nature of research processes, and develop within him an appreciation of the essential characteristics of good research work. Recommended for students who intend to write theses in Education in 1940. Required of all candidates for the Master of Education degree who began their work since 1937 and to be included in their final examination on readings. *C, I, II, 3 s.h.*

MR. SCATES



300X. Educational Research.—Thesis credit only. *B, I, II.* 3 s.h.

MR. SCATES

S337. Research in Investigations in Reading.—Prerequisite: course S237 or S237A. *A, II.* 3 s.h.

MR. TIREMAN

#### SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

S205. Curriculum Problems in Secondary Education.—A consideration of practical problems of curriculum-making in the high school, in the light of the objectives of secondary education. *Section 1, B, I, II; Section 2, D, I.* 3 s.h.

MR. HOWARD

S206. Sociological Foundations of Secondary Education.—A consideration of the aims and objectives of the secondary school and of the secondary school subjects, in the light of the school as a social institution. *Section 1, B, I, II; Section 2, C, I, II.* 3 s.h.

MR. J. M. GWYNN AND MR. PUNKÉ (*first term*)  
MR. HOLLIS (*second term*)

S216. Psychological Principles of Secondary Education.—*A, I, II.* 3 s.h.

MR. BOND

S226. Teaching of History and the Social Studies.—A course for teachers of social studies in junior and senior high school. Discussions and collateral readings upon such topics as aims, tests for values, the social-studies curriculum, classroom procedure, course and lesson planning, etc. *C, I.* 3 s.h.

MRS. HAWKES

S234. Secondary School Organization and Administration.—For the first term, Section 1 recommended for principals and for teachers of five years' experience; Section 2 recommended for teachers of less than five years' experience. *Section 1, A, I; Section 2, C, I, II.* 3 s.h.

MR. P. H. GWYNN (*first term*)

MR. GOLDTHORPE (*second term*)

S234X. Thesis Seminar in Secondary Education.—*Schedule to be arranged. I, II (first three weeks).*

MR. CHILDS, MR. J. M. GWYNN, AND MRS. HAWKES

S246. The Teaching of High-School Mathematics.—Identical with Mathematics S204. *C, I.* 3 s.h.

MR. W. W. RANKIN

S266. The Teaching of High-School French.—Identical with French S218. *B, I.* 3 s.h.

MR. WEBB

S273. Problems of High-School Supervision.—*Section 1, A, I, II; Section 2, B, I.* 3 s.h.

MR. HIGHSMITH (*first term*)

MR. HOWARD (*second term*)

S276. The Teaching of High-School Science.—Discussion, based upon lectures and collateral reading, of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary school science. Prerequisite: at least eighteen semester hours of science in college. *A, I.* 3 s.h.

MR. SLAY

Other courses accepted, not to exceed a total of six semester hours, as work in Secondary Education are the following, when the student has the approval of his major professor: S233 or S233A, S287, S289, S209, S224, listed under the division of Supervision; and S208, S217, S218, S219, S258, listed under Educational Psychology.

## ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

**S207. Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. A course primarily for those interested in the supervision of elementary school instruction. *B, I. 3 s.h.* MR. BOND

**S212. Psychology of the Elementary School Subjects.**—*B, II. 3 s.h.*  
MR. BOND

**S218. Educational Implications of Genetic Psychology.**—*C, I, II. 3 s.h.*  
MR. EASLEY (*first term*)  
MR. A. M. JORDAN (*second term*)

**S222. The Curriculum and Materials of the Elementary Grades.**—(Not open to students who had S242 in the summer of 1935 or 1936.) *Section 1, A, I; Section 2, B, I. 3 s.h.* MR. HILLMAN

**S232. Elementary School Supervision.**—*A, I. 3 s.h.* MR. OVERN

**S237. Investigations in Reading.**—*B, I, II. 3 s.h.* MR. TIREMAN

**S237A. Investigations in Reading: Primary Section.**—*A, I. 3 s.h.*  
MR. TIREMAN

**S247A. Investigations in Arithmetic: Primary Section.**—*B, I. 3 s.h.*  
MISS JOHN

**S247B. Investigations in Arithmetic: Grammar Grades Section.**—*A, I. 3 s.h.*  
MISS JOHN

**S257. Investigations in Language and Elementary School English.**—*Section 1, C, I; Section 2, D, I. 3 s.h.* MR. EVANS

**S258. Educational Measurements.**—*B, I, II. 3 s.h.* MR. ODELL

**S287. Problems of Mentally and Educationally Retarded Children.**—*Section 1, A, I; Section 2, B, I. 3 s.h.* MR. WALLIN

**S288. Problems of Mental Hygiene and Education.**—*Section 1, C, I; Section 2, D, I; A, C, II (first three weeks). 3 s.h.*  
MR. HOLSOPE (*first term*)  
MR. WALLIN (*second term*)

**S322. Seminar in Elementary Education.**—Thesis students in elementary education should attach themselves to this course for supervision and residence credit. *C, I. 3 s.h.* MR. CARR

Other courses accepted, not to exceed a total of six semester hours, as work in Elementary Education are the following, when the student has the approval of his major professor: S224, S233, or S233A, listed under the division of Supervision; and S208, S217, S219, listed under Educational Psychology.

## UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester hours of methods courses are allowed to count.)

**S58. The Learning Process.**—A course in elementary educational psychology. *A, I.* 3 s.h. MR. ESKRIDGE

**S68. Mental Hygiene of the School Child.**—A course primarily for teachers in the elementary school. A study of personality factors as related to the adjustment and success of the school child; the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. *D, I; B, II.* 3 s.h.

MR. GODARD (*first term*)

MR. WATSON (*second term*)

**S83. Current Trends in American Public-School Organization.**—A study of current controversies and criticism bearing on the organization and administration of the public schools, recent developments in the organization of schools and the theories underlying these developments. *B, I, II.* 3 s.h.

MR. CURTIS (*first term*)

MR. BARDEN (*second term*)

**S103. School Organization and Administration for the Classroom Teacher.**—A study of the problems of school organization, control, and administration as they arise in the work of the classroom teacher. *C, II.* 3 s.h.

MR. BARDEN

**S117. Analysis of Study and Study Habits in the Elementary School Subjects.**—A study of the available literature on study and study habits, with practical discussions, planned to meet the needs of teachers and supervisors in the elementary schools. *C, I.* 3 s.h.

MR. CURTIS

**S118. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and such similar material of special significance to teachers in the elementary schools. *D, I; C, II.* 3 s.h.

MR. WATSON

**S122. The Teaching of Arithmetic in the Primary Grades.**—A special section of S127 for primary teachers. *B, I.* 3 s.h.

MISS DEANS

**S127. The Teaching of Arithmetic in the Grammar Grades.**—A course designed to acquaint the teacher with the best methods of teaching arithmetic which have evolved from more than a decade of research and experimentation; emphasis upon the actual process under normal classroom conditions, with special attention to problem solving; brief survey of the work of the primary grades is also given. *C, I.* 3 s.h.

MISS DEANS

**S136. The Teaching of High-School English.**—Identical with English S142. *D, I.* 3 s.h.

MR. A. C. JORDAN

**S142. Children's Literature: Primary Section.**—A critical study of literature for primary grades; types of literature; story telling, principles underlying and practice; study of State Course of Study and adopted texts; bibliographies and use of the library. *3, I.* 2 s.h.

MISS WILSON

**S147. Children's Literature: Grammar Grade Section.**—A critical study of literature for grammar grades; similar to S142 above. *2, I.* 2 s.h.

MISS WILSON

**S161. Social Studies in the Grammar Grade.**—Identical with S162 below, except that illustrative materials are chosen with the child of grades four to seven in mind. *D, I. 3 s.h.* MRS. PORTER

**S162. Social Studies in the Primary Grades.**—A study of programs, principles, and procedures in the social studies in the primary grades, with more detailed methods of planning, selecting materials, and teaching specific units. *C, I. 3 s.h.* MRS. PORTER

**S167. Materials and Methods in the Teaching of Science in the Elementary Schools.**—Identical with S276, except that illustrative materials are chosen with the child of grades four to seven in mind. *B, I. 3 s.h.* MR. SLAY

**S182. The Teaching of Geography.**—Emphasis upon developing methods of reasoning with geographical materials. Diagnosis of specific difficulties in teaching geography and suggestions for remedial teaching. Recommended for teachers of two or more years' experience or persons who have had college courses in geography. (See Economics S115, S116.) *C, I. 3 s.h.* MR. GODARD

**S192. Materials and Methods in the Primary Grades.**—A study of curriculum problems in grades one to three; the theories underlying the organization of the integrated curriculum; the principles underlying large unit teaching; the environment as a source of materials for developing the curriculum; centers of interest around which units of work may develop; criteria for selection; selection and organization of materials; the organization of the curriculum around large units; checking the results against objectives and subject-matter requirements; technique of teaching large units, including the place of drill, the program of work, provision for individual differences, and the relationship of the various subjects to the units of work. An actual unit of work will be developed in detail for each grade level. *B, I, II. 3 s.h.*

MISS MICHAELS (*first term*)

MISS MARKS (*second term*)

**S197. Materials and Methods in the Grammar Grades.**—Identical with S192 above, except that illustrative materials are chosen with the child of grades four to seven in mind. *A, I, II. 3 s.h.*

MISS MICHAELS (*first term*)

MISS MARKS (*second term*)

#### PUBLIC SCHOOL ART AND MUSIC

**A. Integrated Art in the Public School.**—This course is offered to develop certain skills fundamental in the teaching of public school art as well as skills that will prove of help in teaching other subjects of the elementary school curriculum. Topics: color theory, design, perspective, representation, figure drawing, illustration, picture study, etc. Emphasis varies with the needs of the class. Media: tempera color, crayons, clay, etc. (A required course in the Elementary Teaching group.) *A, and 10:40-12:55, I (second three weeks); II (last three weeks). 3 points professional credit only.*

MRS. ALSTON (*first term*)

MRS. MASON (*second term*)

**B. Industrial Art in the Public School.**—Manipulation and work with clay, textiles, wood, paper, food, printing, etc., intended to give the child an acquaintance with the raw products of nature, and the changes made in them so that they may be more usable for food, clothing, shelter, utensils, tools, etc. Each student taking the course must complete a project upon the work of the grade in which she expects to teach. (A required course in the Elementary Teaching group.) *A, 10:40-12:55, II (first three weeks). 3 points professional credit only.* MRS. ALSTON



**C. Public School Music.**—A course in the fundamentals necessary for grade teaching. Such topics as sight singing, ear training, music appreciation, rote songs, child voice, etc., will be discussed. This is an elementary course intended primarily for grade teachers. (A required course in the Elementary Teaching group.) *A, methods and theory; 2 rote singing and rhythm; C, sight singing and ear training; I (first three weeks). 3 points professional credit only.* MR. BRUINSMA

#### HYGIENE AND HEALTH EDUCATION

**S112. Personal and School Hygiene.**—General, personal, and school hygiene with some instruction in anatomy and physiology; cause, transmission, and prevention of communicable diseases; the more common defects of school children; schoolhouse sanitation; medical inspection; etc. *C, D, I (first three weeks). 3 s.h.* MISS GARDINER

**S132A. Materials and Methods in Health Education: Primary Grades.**—*A, I. 3 s.h.* MR. AYCOCK

**S132B. Materials and Methods in Health Education: Grammar Grades.**—A special section of S132 for teachers in the grammar grades. *B, I. 3 s.h.* MR. AYCOCK

NOTE. Both sections of S132 work out programs of physical and health education in the grades.

#### NOTE AS TO UNDERGRADUATE PHYSICAL EDUCATION

*Undergraduate students in Trinity College are required to take six semester hours of physical education, divided into four courses taken one each term during their first two years in college. Among the courses offered to meet the physical education requirements are Swimming 13 (for beginners), and Swimming 42 (for more advanced students). By request, these courses are offered for men the first term this summer on the West Campus, under the direction of Swimming Coach W. S. Persons. Course 13 is scheduled for Period 1, and course 42 for Period 2. Each course carries physical education credit of one and one-half semester hours, is limited to a maximum enrollment of thirty students and involves a special fee of \$5.00. Similarly, arrangements can be made for women on the East Campus the first term of Summer School if there is sufficient demand. (Mrs. Bookhout, 2:30 for beginners and 3:15 for advanced swimmers.)*

#### ENGINEERING

**C.E. S10. Plane Surveying.**—Use of instruments; transit, stadia, compass, and plane-table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. *Three weeks, nine hours a day, beginning June 2. 3 s.h.*

MR. HALL, MR. BIRD, AND MR. WILLIAMS

**C.E. S110. Plane Surveying.**—A special section of C.E. S10 intended for students in Forestry and others of advanced standing. *Three weeks, nine hours a day, beginning June 2. 3 s.h.* MR. BIRD

#### ENGLISH

Those who wish to become candidates for the Master's degree in English are expected to have at least twelve semester hours in courses above Sophomore requirements. The Department reserves the right to require additional course work on the graduate level if the work of the student in his first term indicates

inadequate preparation. For admission to candidacy with a major in American Literature the student must present courses S137-S138 or an acceptable equivalent in American Literature either as part of the twelve stipulated above or in addition to them.

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should also take the bibliography course, S301, at their earliest opportunity.

**S1. English Composition.**—A course in the fundamentals of English composition, oral and written, with special attention to sentence structure, syntax, common errors, etc. Frequent themes. *A, II. 3 s.h.* MR. HARWELL

**S2. English Composition.**—A continuation of course S1. *C, II. 3 s.h.*  
MR. HARWELL

**S53. English Composition.**—By means of instruction, frequent conferences, and extensive writing of assignments, this course undertakes to make the student familiar with the qualities of the best prose style. (Open only to those who have credit for S1.) *C, I. 3 s.h.* MR. A. C. JORDAN

**S55. Representative English Writers.**—Homer, Malory, More, Shakespeare, Pepys, and Swift will be studied. *A, I. 3 s.h.* MR. SANDERS

**S56. Representative English Writers.**—Fielding, Boswell, Goldsmith, Sheridan, Byron, Carlyle, Thackeray, and Strachey will be studied. *B, I. 3 s.h.*  
MR. SANDERS

**S63. A Survey of English Poetry.**—Readings in the English poets from Chaucer to Burns. Attention will be paid to poetic types and technique. *B, II. 3 s.h.* MR. SUGDEN

**S64. A Survey of English Poetry.**—Readings in the English poets of the Romantic and Victorian periods, with some consideration of the modern poets. *C, II. 3 s.h.* MR. SUGDEN

**S107. Journalism: The Collecting and Writing of News.**—Written assignments, lectures, and class discussion in newsgathering, the duties of the reporter, and the organization of the newspaper staff. Exercises and assignments in judging news value and writing newspaper narratives, combined with practical work. *B, II. 3 s.h.* MR. HARRIS

**S108. Journalism: Editing Practices.**—The purpose of this course is to present to the student the problems, major and minor, of the newspaper desk-worker. Rules and principles which govern the technique employed by the better craftsmen not only are presented theoretically, but are exemplified in practice work. This course includes copy-reading, headline writing, problems of newspaper makeup and typography and general editing standards. *D, II. 3 s.h.* MR. HARRIS

**S117. Acting.**—*Lectures 2, rehearsals C, I. 3 s.h.* MR. WEST

**S121. Play Production.**—This course deals with the theory and practice of producing plays. The work includes make-up, lighting, scene-design and painting, costume, directing, and stage-management. There is practice-work both in the laboratory and in the theater. *Lectures 2:30-3:30 every other day beginning June 13, and laboratory 2:30-4:30 every other day beginning June 14, I. 3 s.h.* MR. WEST

**S122. Play Production.**—Continuation of S121. *Lectures C, and laboratory 2:30-3:30 daily, II (first three weeks). 3 s.h.* MR. WEST



**S123. Shakespeare.**—The histories and comedies. (This course duplicates S124 as offered in the summer of 1937 and preceding summers.) *C, I.* 3 s.h. MR. MITCHELL

**S124. Shakespeare.** Introduction and detailed study of the tragedies. (This course duplicates S123 as offered in the summer of 1937 and preceding summers.) *B, I.* 3 s.h. MR. MITCHELL

**S125. Early Nineteenth-Century Literature.**—This course consists of representative English writers in the period 1798-1832, with emphasis upon Coleridge, Wordsworth, Hazlitt, and Scott. *B, II.* 3 s.h. MR. PATTON

**S126. Early Nineteenth-Century Literature.**—Continuation of course S125, emphasizing Byron, Shelley, and Keats. Open to enrollment to students who have had or are taking S125. *C, II.* 3 s.h. MR. PATTON

**S137. American Literature prior to 1850.**—This course consists of wide reading in American prose and poetry produced prior to 1850. *A, I.* 3 s.h. MR. STROVEN

**S138. American Literature, 1850-1900.**—Continuation of course S137. *B, I; A, II.* 3 s.h. MR. HURLEY, (*first term*)  
MR. STROVEN (*second term*)

**S142. The Teaching of High-School English.**—Materials and methods in high-school English. *D, I.* 3 s.h. MR. A. C. JORDAN

**S145. English Literature, 1832-1900.**—A study of representative English poets of the period, with special emphasis on Tennyson, Browning, and Arnold. *A, I.* 3 s.h. MR. BLACKBURN

**S146. English Literature, 1832-1900.**—A study of representative English prose writers of the period. *B, I.* 3 s.h. MR. BLACKBURN

**S147. American Literature since 1900.**—*C, I.* 3 s.h. MR. HURLEY

**S163. Folk Backgrounds of Literature.**—A special section of S213 for undergraduate students. The reading of fables, tales, legends, nursery rhymes, ballads, and songs. Correlation with forms of individual literature. Attention given to North Carolina and Southern folklore. Lantern slides and illustrative singing. *A, I.* 3 s.h. MR. J. M. CARPENTER

**S203. Chaucer.**—A survey of his life and principal poems, the development of his art, the sources and social background of his poetry. *C, I.* 3 s.h. MR. BAUGH

**S211A. The Essay to 1650.**—A study of the origins, growth, and types of the English essay with special attention to classical and continental models. The essays of Montaigne, Bacon, Feltham, Fuller, and Browne are to be carefully analyzed. *C, I.* 3 s.h. MR. ALLEN

**S213. Folk Backgrounds of Literature.**—The rapid reading of fables, tales, legends, nursery rhymes, popular ballads, and other folksongs. Correlation with forms of individual literature. Special attention given to North Carolina and Southern folklore. Lantern slides and illustrative singing. *B, I.* 3 s.h. MR. J. M. CARPENTER

**S215. Elizabethan Drama.**—A study of the contemporaries of Shakespeare. *B, I.* 3 s.h. MR. SPENCER

**S216. The English Drama in the Reign of James I.**—A study of the later contemporaries and immediate successors of Shakespeare, with emphasis upon the plays of Beaumont and Fletcher. *C, II.* 3 s.h. MR. SPENCER

S218. Milton: *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*.—Problems in their interpretation. *A, II.* 3 s.h. MR. HUGHES

S220. English Literature, 1750-1800.—*A, I.* 3 s.h. MR. IRVING

S221. English Drama, 1660-1780.—A study of the principal plays between Dryden and Sheridan. Lectures and reports. *B, II.* 3 s.h. MR. WARD

S223. Survey of Early Nineteenth-Century Literature.—*C, I.* 3 s.h. MR. JONES

S225A. Early Victorian Literature: Browning.—A study of Browning's poetry and its contributions to nineteenth-century thought. Special attention will be given to the shorter poems, four books of the *Ring and the Book*, and three of the dramas. *A, II.* 3 s.h. MR. GRIGGS

S226. Later Victorian Literature, 1850-1900.—A study of the major writers of this period. Special attention will be given to Arnold, Browning, Rossetti, Swinburne, Ruskin, and Pater. *B, II.* 3 s.h. MR. GRIGGS

S227. Literary Criticism.—A history of literary criticism from Aristotle to 1700. *D, II.* 3 s.h. MR. GILBERT

S235A. Studies in Dryden.—*A, II.* 3 s.h. MR. WARD

S237. Shakespeare's Earlier Plays.—*C, I.* 3 s.h. MR. SPENCER

S238. Shakespeare's Later Plays.—*B, II.* 3 s.h. MR. SPENCER

S241. Literature of the American Far West.—A study of literary trends and of the more important writers, e.g., Harte, Twain, Frank Norris. *D, I.* 3 s.h. MR. STEWART

S243. History of the English Language.—Identical with English S211 as given in 1937. *C, II.* 3 s.h. MR. BAUGH

S257. American Novel prior to 1870.—A survey of the work of representative writers of the American novel before the Civil War, together with a consideration of social conditions that modified it. *A, I.* 3 s.h. MR. LEISY

S258. American Prose Literature since 1870.—A study of the writings, poetry excepted, of the last seventy years, with emphasis upon the period after 1910. *C, I.* 3 s.h. MR. STEWART

S261. Southern Critical Thought.—Readings, lectures, and reports. *B, II.* 3 s.h. MR. PARKS

S268. Milton: Minor Poems and Principal Pamphlets.—*B, II.* 3 s.h. MR. HUGHES

S271. The Nondramatic English Literature of the Sixteenth Century.—This course attempts to plot the current of sixteenth-century ideas as they appear in prose and verse. Emphasis will be placed on the cosmographical, ethical, political, and aesthetic notions of the era. *D, I.* 3 s.h. MR. ALLEN

S301. Bibliography and Methods of Research.—This course or its equivalent is required of all candidates for higher degrees. *Section 1, A, I; Section 2, B, I; A, II.* 3 s.h. MR. JENKINS (*first term*)  
MR. DRAPER (*second term*)

S307X. Thesis Seminar in American Literature prior to 1870.—*Schedule to be arranged, I.* 3 s.h. MR. LEISY

S308X. Thesis Seminar in American Literature since 1865.—*Schedule to be arranged, I (first three weeks).* 3 s.h. MR. GORDES

**S311. English Literature from the Norman Conquest to Chaucer, Part I.**—A survey of Anglo-Norman Literature, the Twelfth-Century Renaissance, French and Latin background of English vernacular writing, and the important English works of the first period, such as the *Ancren Riwle*, *The Owl and the Nightingale*, Layamon's *Brut*, the *Bestiary*, etc. *B, I. 3 s.h.* MR. BAUGH

**S312. English Literature from the Norman Conquest to Chaucer, Part II.**—The beginnings of the lyric, the Middle English romance, the great works of religious instruction (*Cursor Mundi*, etc.), and the allegory (*Piers Plowman*, *The Pearl*). (This course does not duplicate course S312 offered the summer of 1934.) *B, II. 3 s.h.* MR. BAUGH

**S323. Studies in Coleridge.**—Coleridge's contribution to romantic thought. An attempt will be made to study the major influences upon Coleridge's thought. Each student will be expected to give at least one oral report and to prepare a written paper. *A, I. 3 s.h.* MR. GRIGGS

**S324. Studies in Shelley.**—(Not open for enrollment to students who had S240 in 1936.) *D, I. 3 s.h.* MR. JONES

**S325. The Regency and Early Victorian Period.**—A study of the major writers, in the light of the intellectual milieu. The effect of the clash between religion and science, the social problems arising out of the Industrial Revolution, and the philosophical ideas will be studied. Special attention will be given to Cobbett, Carlyle, Mill, Newman, Huxley, and Tennyson. *C, I. 3 s.h.* MR. GRIGGS

**S327. Seminar in Southern Literary Criticism.**—Enrollment limited to twelve students. *C, II. 3 s.h.* MR. PARKS

**S329. Seminar in Sixteenth- and Seventeenth-Century English Literature.**—Open by permission of the instructor to students who have had at least one course in the drama or other literature of the period. The Restoration will not be dealt with. Students writing theses on subjects from these centuries should attach themselves to this course. *Schedule to be arranged, I, II. 3 s.h.* MR. GILBERT

**S331. Seminar: The Age of Pope.**—*B, I. 3 s.h.* MR. IRVING

**S349B. Problems in Shakespeare.**—Intensive study of problems in *Hamlet* and one other tragedy. *B, II. 3 s.h.* MR. DRAFER

## FORESTRY

Candidates for the Bachelor of Science degree with a major in Forestry are required to take Civil Engineering S110 (Plane Surveying) in Summer School at the close of their Junior year. This course is listed under Engineering, page 43, this bulletin. Candidates in Forestry are also expected to take the following courses after completing the required work in Engineering:

**S150. Forest Surveying.**—The application of plane surveying to forest problems. Practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of the transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. Prerequisite: Civil Engineering 110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 26. 5 s.h. (w)*

MR. MAUGHAN

**S151. Forest Mensuration.**—Field studies in the methods of measuring the contents and growth of trees and forest stands. Practice in timber estimating, log scaling, use of mensurational instruments, and the collection of basic data. *Four weeks, eight hours a day, beginning July 31. 4 s.h. (w)*

MR. SCHUMACHER

## FRENCH

**S1. Elementary French.**—Grammar; translation from French into English and English into French; pronunciation, sight translation, and conversation. *A, C, I (first three weeks).* 3 s.h. MISS RAYMOND

**S2. Elementary French.**—Continuation of course S1. *A, C, I (second three weeks).* 3 s.h. MISS RAYMOND

**S3. French Prose.**—Reading and translation, exercise in grammar review and verb drill. Prerequisite: French S1-S2 or two years of high-school French. *A, II.* 3 s.h. MR. DOW

**S4. French Prose.**—Reading and translation, writing in French at dictation, and aural drill. Prerequisite: French S3. *C, II.* 3 s.h. MR. DOW

**S51. Introduction to French Literature.**—Prerequisite: French S3-S4 or equivalent. *A, I.* 3 s.h. MR. BRIDGERS

**S52. Introduction to French Literature.**—Prerequisite: French S51. *C, I.* 3 s.h. MR. BRIDGERS

**S208. The French Romantic Movement, 1820-1850.**—*D, I.* 3 s.h. MR. COWPER

**S209. Molière.**—A study of the man, his art, and his philosophy through the reading and discussion of his principal comedies. Collateral readings on the social background. *A, I.* 3 s.h. MR. QUINN

**S218. Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis of representative texts; objectives in the light of teaching conditions, equipment, and future application. *B, I.* 3 s.h. MR. WEBB

**S219. Old French.**—An introduction to the Old French language and literature. *B, I.* 3 s.h. MR. COWPER

**S233. Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. Required of all candidates for the Master's degree in French, unless a similar graduate course has been taken previously. *C, I.* 3 s.h. MR. WEBB

**S315. Problems in the Modern French Novel.**—Designed for students who wish to begin a thesis project in this field, or who wish to do special work in the novel. Thesis or course credit. *Schedule to be arranged, II.* 3 s.h. MR. B. R. JORDAN

**S340. Thesis Seminar in French Civilization.**—Thesis credit only. *Schedule to be arranged, II.* 3 s.h. MR. B. R. JORDAN

## GEOGRAPHY

See courses listed under Economics.

## GEOLOGY

**S175. Summer Field Course in Geology.**—Prerequisite: Geology 51-52 or its equivalent, and the permission of the instructor. *Four weeks, I.* 4 s.h. MR. W. BERRY

This course is offered tentatively, provided as many as eleven men are accepted by the instructor and make a deposit of \$145.00 before May 6. Application should be made to Dr. W. Berry, 309 Physics Building, Duke Uni-

versity. If more than eleven students are accepted, all over the limit will be placed on the waiting list, with the understanding that for those on the waiting list deposit will be refunded if none of the first eleven accepted withdraw. It is planned for the group to leave Durham by auto caravan June 8 and visit many points of geologic interest between Durham and the Grand Canyon, Yellowstone Park, and back to Durham. Mines, quarries, oil fields, fossil localities, and the like will be visited and discussed. A written report will be required before credit is given. Students accepted for the trip must have had smallpox vaccination and typhoid and para-typhoid injections, and be in good health. The University cannot accept responsibility for sickness or accidents, although precaution will be taken for the common good. Tents and cots will be provided, but eating will be in restaurants. The expense of the trip will be covered by the deposit of \$145.00, which allows \$1.00 per day for food. The student is privileged to spend as much more as he wishes.

### GERMAN

**S1. Elementary German.**—The fundamentals of grammar and pronunciation; vocabulary drill, translation, and dictation. Emphasis upon a sound reading knowledge of the language and individual achievement. *A, C, I (first three weeks).* 3 s.h.  
MR. MAXWELL

**S2. Elementary German.**—The equivalent of the second college semester of German; intensive and extensive reading of graded material; grammar and vocabulary drill; dictation and sight translation. *A, C, I (second three weeks).* 3 s.h.  
MR. MAXWELL

**S3. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *A, I.* 3 s.h.  
MR. F. E. WILSON

**S4. Intermediate German.**—Grammar and composition; dictation, spoken German; reading of narrative and dramatic prose. *C, I.* 3 s.h.  
MR. F. E. WILSON

**S115. German Drama of the First Half of the Nineteenth Century.**—A study of leading dramatists, beginning with Heinrich von Kleist. *A, II.* 3 s.h.  
MR. KRUMMEL

**S116. German Drama of the Second Half of the Nineteenth Century.**—A study of leading dramatists, closing with Gerhart Hauptmann. *B, II.* 3 s.h.  
MR. KRUMMEL

### GOVERNMENT

See courses listed under Political Science.

### GREEK LITERATURE

(In English Translation)

**S121. Homer.**—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translation. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. The *Iliad* and *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Mycenaean Age. Reports on assigned topics required. *B, I.* 3 s.h.  
MR. JERNIGAN

**S122. Greek Literature: The Great Tragedies.**—The purpose of this course is similar to that of course S121. Many of the extant plays of Aeschylus, Sophocles, and Euripides are studied in English translations, and reports on assigned topics are required. *D, I.* 3 s.h.  
MR. JERNIGAN



## HISTORY

For admission to candidacy for a Master's degree in History the student must present a total of eighteen semester hours of prior work in History, of which at least six must be in American History if he plans to take his major work in that field. Before enrolling for thesis supervision, candidates for the Master's degree are required to complete at least three semester hours of seminar work and are strongly urged to enroll for this work in the second term of their attendance in the Summer School. (See courses numbered 300 or above.)

**S51. Modern and Contemporaneous Europe.**—A careful survey is made of European history from 1500-1814, with especial attention given to political developments. Passing attention is given to religious, economic, social, and cultural movements. *B, I, 3 s.h.* Mr. McCloy

**S52. Modern and Contemporaneous Europe.**—A survey of European history since 1814. *C, I, 3 s.h.* Mr. McCloy

**S91. Political and Social History of the United States to 1830.**—A general survey of the development of the United States in which effort is made to place the proper emphasis on underlying economic or other causes of political and social progress. *A, I, II, 3 s.h.*

Mr. MABRY (*first term*)

Mr. MONTAGUE (*second term*)

**S92. Political and Social History of the United States, 1830-1900.**—*B, I; C, II, 3 s.h.*

Mr. MABRY (*first term*)

Mr. MONTAGUE (*second term*)

**S101. Development of Western European Civilization to about 800 A.D.**—A study of the development in Western Europe of the familiar institutions and culture of modern society as developed from ancient times down to the period of Charlemagne. *B, II, 3 s.h.*

Mr. MANCHESTER

**S102. Development of Western European Civilization from 800 to 1563 A.D.**—Continuation of course S101 through the Renaissance, Reformation, and Catholic Counter-Reformation. Students may enter this course independently of S101. *A, I; C, II, 3 s.h.*

Mrs. QUINN (*first term*)

Mr. MANCHESTER (*second term*)

**S119. Social and Economic History of the American People.**—Particular attention is given to the relations between economic forces and such phases of social life as the family, morals, and customs, immigration, crime and punishment, amusements, public opinion, and public health. Prerequisite: S91-S92. *C, I, 3 s.h.*

Mr. ROBERT

**S203. The Union, Confederacy, and Reconstruction.**—The subjects considered are the rise of secession, the constitutional and economic problems of the Union and Confederacy, and the political and economic adjustments during Reconstruction. *A, I, II, 3 s.h.*

Mr. GREEN (*first term*)

Mr. WOODY (*second term*)

**S208A. Studies in the Social History of the United States prior to 1850.**—*D, I, 3 s.h.*

Mr. ROBERT

**S210. Political and Constitutional History of the United States, 1820-1850.**—A study of the men and measures that shaped American political thought and action of this period, with some attention to the development of processes for fashioning public opinion. Much use will be made of biography. *B, II, 3 s.h.*

Mr. C. H. SMITH



**S213. Recent History of the United States.**—This course emphasizes the period since the Spanish-American War. *Section 1, C, I; Section 2, D, I. 3 s.h.*  
MR. L. F. HILL

**S215. History of the United States' Foreign Policy prior to 1876.**—*B, I. 3 s.h.*  
MR. CALLCOTT

**S216. History of the United States' Foreign Policy since 1876.**—*C, I. 3 s.h.*  
MR. CALLCOTT

**S218. Europe since 1914.**—A study of the World War, the Paris Peace Conference, the international aftermath of the war, and the recent internal developments in the major states of Europe. *A, I, II. 3 s.h.*

MR. LANGSAM (*first term*)

MR. HALE (*second term*)

**S223. Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, etc., 300-800 A.D. *B, I. 3 s.h.*

MRS. QUINN

**S228. Europe and Africa since 1870.**—A study of the factors which led to the quickening of European interest in Africa during the nineteenth century, of the resulting international complications, of the consequent conflict of culture, and of the post-war colonial conditions and problems in Africa. *B, I. 3 s.h.*

MR. LANGSAM

**S234. Political and Social Problems in the Hispanic American Republics.**—*B, I. 3 s.h.*

MR. LANNING

**S236. The South in Federal Politics, 1789-1860.**—*A, I. 3 s.h.* MR. SYDNOR

**S237. Social and Intellectual Development of the Old South.**—Consideration will be given to conditions in the South in respect to slavery, agriculture, manufacturing, transportation, education, religion, science, and literature. *C, I. 3 s.h.*

MR. STEPHENSON

**S241. History of Modern Japan.**—A survey of institutional development, political, economic, and social, since 1850. *C, I. 3 s.h.*

MR. CLYDE

**S243. American Foreign Relations and the Far East.**—*D, I. 3 s.h.*

MR. CLYDE

**S306X. Thesis Seminar in Southern History.**—Open only to students who have theses in process or have completed the required courses in American History for the Master's degree. *Residence credit only, I.*

MR. SYDNOR

**S315. Seminar in Southern History.**—Selected topics in the development of the South Atlantic region, chosen from year to year, in different periods in its development. *C, I, II. 3 s.h.*

MR. GREEN (*first term*)

MR. WOODY (*second term*)

**S317. Seminar in Modern European History.**—Directed research in problems relating to the history of Europe in the nineteenth century. *B, II. 3 s.h.*

MR. HALE

**S325-326. British Nationality and Public Opinion.**—A study of the pressure technique used by the various leaders and groups that have contended for power in England since the sixteenth century. The work will consist of lectures and a seminar for the supervision, criticism, and discussion of the research paper which each student is required to submit and which constitutes his work in the course. *B, C, I. 6 s.h.*

MR. LAPRADE

**S330. Seminar in Jacksonian Democracy, 1824-1837.**—Directed investigation of questions relating to the course theme, with class reports. (Students enrolling in this course should have credit for or be enrolled in S210.) *C, II. 3 s.h.*  
MR. C. H. SMITH

**S333. Studies in Hispanic-American History and Related Fields.**—Registration is confined to those who have had History S231 or S232 and those taking S234. Enrollment is limited to twelve students. Students writing theses under Mr. Lanning's direction will attach themselves to this course. *C, I. 3 s.h.*  
MR. LANNING

**S337. Seminar: Social and Economic History of the Old South.**—*A, I. 3 s.h.*  
MR. STEPHENSON

## MATHEMATICS

To become a candidate for the degree of Master of Arts with major in Mathematics, a student must, besides meeting the University requirements for admission to the Graduate School, have completed a minimum of twenty-four semester hours of course work in mathematics or related fields. This course work must be approved by the Department through the Director of Graduate Studies, Dr. J. J. Gergen. It must include differential and integral calculus and an additional six semester hours of work in mathematical courses of at least Junior level.

To obtain the degree, a candidate must, besides meeting the University requirements relative to language, credits, thesis, and residence, specialize in one of the following divisions of mathematics: algebra, analysis, geometry, or applied mathematics. In his division of specialization he must write his thesis and complete at least twelve semester hours of course work. To assist students in meeting the thesis requirement, the Department offers a thesis seminar (course S389-S390X) in which supervision of thesis writing is available in one or more of the divisions. The scope of the seminar is announced each year in this bulletin. Each candidate should, as early as possible in his graduate work, discuss his program with Dr. Gergen or his representative.

**S204. Teaching of Mathematics.**—Fundamental processes, method of study, mathematical literature, content of courses, applications, correlation of different branches. Prerequisite: integral calculus. *C, I. 3 s.h.*  
MR. W. W. RANKIN

**S205. Modern Developments in Mathematics.**—A historical survey of mathematics, with special reference to discoveries of the last fifty years and their significance from the standpoint of elementary mathematics. *D, I. 3 s.h.*  
MR. BRINKMANN

**S225. Theory of Equations.**—Permutations, determinants, linear systems, polynomials and their roots, constructibility, symmetric functions, resultants, simultaneous equations. Thomas, *Theory of Equations*, New York, 1938. Prerequisite: differential calculus. *B, I. 3 s.h.*  
MR. BRINKMANN

**S239. Advanced Calculus.**—Continuity; Taylor's theorem; definite, improper, and infinite integrals. Fite, *Advanced Calculus*, New York, 1938. Prerequisite: integral calculus. *C, I. 3 s.h.*  
MR. DRESSEL

**S240. Advanced Calculus.**—Double and triple integrals; infinite series; power series; implicit functions. Text as for S239. Prerequisite: integral calculus. *B, II. 3 s.h.*  
MR. MILES

**S241. Integral Equations.**—Volterra and Fredholm integral equations; application to boundary problems of differential equations. Bôcher, *Introduction to the Study of Integral Equations*, New York, 1914. Prerequisite: course 239-240. *B, I. 3 s.h.*  
MR. DRESSEL

**S255. Projective Geometry.**—Postulational, synthetic treatment, centering around Desargues' theorem, the principle of projectivity, and the principle of duality; introduction of coordinate systems. Veblen and Young, *Projective Geometry*, Vol. I, Boston, 1910. Prerequisite: differential calculus. *A, I.* 3 s.h.

MR. CARLITZ

**S256. Projective Geometry.**—Continuation of S255 with same text. Conics, collineations, order, continuity, metric properties. Prerequisite: S255 or special permission from instructor. *C, II.* 3 s.h.

MR. ROBERTS

**S275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Uspensky, *Introduction to Mathematical Probability*, New York, 1937. Prerequisite: integral calculus. *A, II.* 3 s.h.

MR. MILES

**S325. Real Variable.**—Riemann and Lebesgue integrals; measure. Kestelman, *Modern Theories of Integration*, New York, 1937. Prerequisite: S239. *C, I.* 3 s.h.

MR. GERGEN

**S326. Real Variable.**—The number system; transfinite numbers; Baire classes. Prerequisite: S239. *B, II.* 3 s.h.

MR. ROBERTS

**S389X. Thesis Seminar.**—Supervision of individual theses in algebra and analysis with subjects based on courses S225, S228 (Theory of Numbers), S235-S236 (Modern Algebra), S239-S240, and S331-S332 (Complex Variable). Students should consult the instructor before registering. *Thesis credit only. Schedule to be arranged, I.*

MR. CARLITZ

**S390X. Thesis Seminar.**—Supervision of individual theses in analysis and applied mathematics with subjects based on courses S239-S240, S241, S281 (Potential Theory), S325-S326 and S331-S332 (Complex Variable). Students should consult the instructor before registering. *Thesis credit only. Schedule to be arranged, II.*

MR. GERGEN

## PHYSICS

For admission to candidacy for a Master's degree with major in Physics, students must have completed a minimum of twelve semester hours of Physics. This course work, together with the work in the field of the proposed minor, must be approved by the Department through the Director of Graduate Studies.

**S1-S2. General Physics.**—This course traces historically and experimentally the development of great principles. It stresses neither mathematical processes nor exact measurements. Three-hour recitation and two-hour laboratory. *Lectures or recitations 1, 2, 3; laboratory 2:00 to 4:00 p.m. daily, I (June 8 to July 26).* 8 s.h. (w) (Laboratory fee, \$4.00.)

MR. D. W. CARPENTER AND MR. RICHARDS

**S17. Physics for Engineers.**—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. *Lectures 1, 2, and 3, I (first three weeks)* 3 s.h. (E) (Not offered unless as many as ten students register before May 1.)

MR. MOUZON

**S18. Physics for Engineers.**—Continuation of Physics S17. *Lectures 1, 2, and 3, I (second three weeks).* 3 s.h. (E) (Not offered unless as many as ten students register before May 1.)

MR. MOUZON

**S106. Photography.**—A practical course on the making and processing of photographs and the application of photography to the sciences and arts. In general, each student will be expected to supply his own camera and film. One-hour lecture and one three-hour laboratory. *Lectures A; laboratory 9:30-12:30, II (first three weeks).* 3 s.h. (w) (Laboratory fee, \$5.00.)

MR. BONNER

**S207. Electricity and Magnetism.**—This course covers the fundamental phenomena of direct and alternating currents and magnetism. Two lectures and three-hour laboratory. *Lectures 1 and 3; laboratory 2:00 to 5:00 p.m., 1 (first three weeks).* 3 s.h. (w) (*Laboratory fee, \$3.00.*)

MR. CONSTANT

**S208. Electricity and Magnetism.**—Continuation of S207. *Lectures 1 and 3; laboratory 2:00 to 5:00 P.M., 1 (second three weeks).* (w) (*Laboratory fee, \$3.00.*)

MR. CONSTANT

**S353X. Thesis Seminar.**—Students who are properly qualified may carry on research work under the direction of members of the staff. *Schedule to be arranged, I. 2 to 6 s.h.* (w)

MR. BONNER, MR. CONSTANT, MR. MOUZON, AND MR. NIELSEN

### POLITICAL SCIENCE

**S61. American Government and Politics.**—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. *A, I, II. 3 s.h.*

MR. LINEBARGER (*first term*)

MR. SIMPSON (*second term*)

**S62. American Government and Politics.**—Continuation of S61. *C, I, II. 3 s.h.*

MR. LINEBARGER (*first term*)

MR. SIMPSON (*second term*)

**S136. Major European Governments.**—A study of the organization and functioning of the government of Great Britain, France, Germany, Italy, and Russia. *B, I. 3 s.h.*

MR. COLE

**S209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the Federal Government. *B, I. 3 s.h.*

MR. R. S. RANKIN

**S221. Foreign Service: Diplomatic and Consular Practice.**—The development, conduct, and control of American foreign relations; the organization and functions of the Department of State; duties of diplomatic and consular officers; diplomatic usage, privileges and immunities; consular practice and procedure; the machinery of diplomacy as an effective scientific agency of government. *A, I. 3 s.h.*

MR. STUART

**S222. World Politics.**—A general survey of the forces and conflicts operating in international relations and world affairs. The present national policies of the great powers are considered from the historical, political, and economic viewpoints. Particular emphasis will be given to the position of the United States in the international conflict of interests. *C, I. 3 s.h.*

MR. STUART

**S229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to the theory of government from 1850 to the present. *C, I. 3 s.h.*

MR. COLE

**S241. Principles of Public Administration.**—A study of governmental techniques, personnel and financial administration, and administrative law. *B, II. 3 s.h.*

MR. SHIPMAN

**S244. Problems in Public Administration.**—A study of selected phases of public administration, including budgetary, taxation, and accounting methods. *C, II. 3 s.h.*

MR. SHIPMAN

**S310. Seminar in State Government.**—Open to students who have completed course S209 or its equivalent. *C, I. 3 s.h.* MR. R. S. RANKIN

### PSYCHOLOGY

**S101. Introduction to Psychology: General Principles of Mental Activity and Growth.**—Lectures, demonstrations, prescribed readings, and reports. *A, I. 3 s.h.* MRS. MACCOLL

**S204. Psychology of Motivation.**—A consideration of the fundamental properties and modes of action of motivation forces, their constitutional basis, modification, and organization into complex systems of the personality. *B, II. 3 s.h.* MR. ZENER

**S207. Experimental Psychology.**—Experimental and theoretical contributions to the psychology of the cognitive processes; perceiving, thinking, remembering. Lectures, discussions, reports. *A, II. 3 s.h.* MR. ZENER

**S215. Child Psychology.**—A study of experiments bearing upon the structure of the psychological person and of its psychological environment, and the character of the changes they undergo in the course of maturation, together with certain implications of these changes for the mental hygiene and pedagogy of childhood. Discussions of theory of compensation, psychological induction, learning, and various other phenomena. Lectures, with motion picture demonstrations of environmental changes in child behavior and development. *C, I. 3 s.h.* MR. ADAMS

**S217. Gestalt Theory.**—Critical survey of principles and experimental contributions of the Gestalt School. *B, I. 3 s.h.* MR. ADAMS

### RELIGION

**S103. The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the message of the outstanding pre-exilic literary prophets. *B, I. 3 s.h.* MR. MYERS

**S116. The Teachings of Jesus.**—An interpretation of the teaching of Jesus as recorded in the Synoptic Gospels. *C, I. 3 s.h.* MR. MYERS

**S165. Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. *A, I. 3 s.h.* MR. SPENCE

**S168. Religious Drama: Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. *B, I. 3 s.h.* MR. SPENCE

**S261. Foundations of Religious Education.**—A survey of the fundamental conceptions underlying the theory and practice of Christian education. *A, I. 3 s.h.* MR. H. S. SMITH

**S284. Ideas of the Future Life and Ethics in the Religions of the World.**—The conception of the future life and ethical ideals and practice in the religions of the world. *A, II. 3 s.h.* MR. CANNON

**S285. The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. *C, II. 3 s.h.* MR. CANNON

**S366. Seminar in Philosophy of Religious Education.**—Selected problems bearing on the reconstruction of current principles of religious education. *C, I. 3 s.h.* MR. H. S. SMITH



## SOCIOLOGY

Attention is called to the fact that Course S101 is a prerequisite to all other courses in the Department.

**S101. General Sociology.**—An introduction to the scientific study of social life; its origin, evolution, and organization, as illustrated by the study of a number of concrete social problems. This course is prerequisite to all other courses in Sociology. *Section 1, A, I, II (w), Section 2, D, I (E).*

MR. EDDY (*first term*)

MR. PORTERFIELD (*second term*)

**S105. Introduction to Social Pathology.**—A special section of S205 for undergraduate students. *A, II. 3 s.h.*

MR. ROOT

**S112. Introduction to Child Welfare.**—A special course in child welfare for undergraduates. *B, I. 3 s.h.*

MR. PORTERFIELD

**S114. Race Relations.**—Against the background of a preliminary study of inter-racial experience in other parts of the world an effort is made to understand more clearly the racial situation in the Southern states. *C, I. 3 s.h.*

MR. THOMPSON

**S205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. *B, II. 3 s.h.*

MR. ROOT

**S206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relation of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. *D, I. 3 s.h.*

MR. PORTERFIELD

**S212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, and public and private; and a community program of child welfare. *A, I. 3 s.h.*

MR. JENSEN

**S219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. *B, I. 3 s.h.*

MR. THOMPSON

**S220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the farm family, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. *C, II. 3 s.h.*

MR. THOMPSON

**S227. Emigration and Immigration.**—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigration groups and their organizations in the New World; problems, agencies, and processes of assimilation. *C, I. 3 s.h.*

MR. JENSEN

**S340. Seminar: The Sociology of the South.**—Special problems in race relations, urban and rural life, etc. *A, II. 3 s.h.*

MR. THOMPSON



## SPANISH

**S1. Elementary Spanish.**—Pronunciation; essentials of grammar to include the regular conjugations and more common irregular verbs; early reading of simple prose; dictation. *A, C, I (first three weeks).* 3 s.h. MR. DAVIS

**S2. Elementary Spanish.**—Continuation of course S1; completion of regular and irregular verbs, the subjunctive mood; dictation; composition; reading of cultural material and stories of easy grade. *A, C, I (second three weeks).* 3 s.h. MR. DAVIS

**S3. Intermediate Spanish.**—Systematic grammar review; dictation; drill on verb forms; study of high frequency idioms; reading of novels and plays of medium difficulty. *A, I.* 3 s.h. MR. AVILÉS

**S4. Intermediate Spanish.**—Rapid reading and study of standard novels, plays and verse, with minimum of translation. One standard work will be read in foreign edition. *B, I.* 3 s.h. MR. AVILÉS

**S65. Introduction to Modern Spanish Literature.**—Study of representative masterpieces of nineteenth-century novel and drama, with collateral reading and written report on literary topics. *B, II.* 3 s.h. MR. AVILÉS

**S66. Introduction to Spanish Literature of the Golden Age.**—Study of representative works in the field of Golden Age novel and drama; rapid survey of literary types and trends; collateral readings and critical reports. This course will include an introductory study of *Don Quijote*. *C, II.* 3 s.h. MR. AVILÉS

**S253. Spanish Phonetics.**—The sounds of the Spanish language; sound changes; intonation; regional variations; transcription exercises; some use of electrical recording machine. Prerequisite: S65-S66 or equivalent. *A, I.* 3 s.h. MR. LUNDEBERG

**S372. Seminar in the Modern Spanish Novel.**—The *costumbrista* writers as forerunners of the modern regional novel. Students who plan thesis work in Spanish should enroll in this course. *C, I.* 3 s.h. MR. LUNDEBERG

## ZOOLOGY

For admission to candidacy for a Master's degree in Zoology, students should have completed about twenty-four hours of course work in Zoology. Such work should be distributed in various fields, and a student should have creditable record. A candidate should also have at least a year each of chemistry and physics, and some knowledge of French and German. Work for the degree will require eighteen hours in advanced courses of Zoology, and six hours in a minor field, in addition to a thesis. Before registering for a degree, students should confer with Dr. G. T. Hargitt, Director of Graduate Studies for the Department. Students not candidates for degrees may take courses offered, if prepared; but may not count them toward a degree until twenty-four hours have been completed.

**S209. Evolution and Heredity.**—Facts and theories of organic evolution, including evolution of man. A study of the fundamental principles of heredity and their contribution to a modern concept of evolution. Lectures, reading assignments, and reports. Prerequisite: two years of zoology. *B, D, I.* 6 s.h. MR. JOHNSON

**S222. Entomology.**—A study of anatomy, embryology, physiology, and classification of insects. Readings and reports on literature. Lectures, laboratories, and conferences. Prerequisite: at least one year of zoology. *A, 2:00-5:00 p.m., I.* 6 s.h. (Laboratory fee, \$3.00.) MR. GRAY

**S229. Endocrinology.**—Introduction to the study of the ductless glands. Lectures, reports, demonstrations, and laboratory work. Prerequisite: at least one year of zoology. *B, 2:00-5:00 p.m., II. 6 s.h. (Laboratory fee, \$5.00.)*  
 MR. CUNNINGHAM

**S219 or S353. Special Problems, Research.**—Students with sufficient preparation may carry on investigations under direction, for a thesis or otherwise, in the following fields:

- (a) Embryology and Endocrinology. I, II. MR. CUNNINGHAM
- (f) Vertebrate Zoology or Entomology. I, II. MR. GRAY
- (i) Cytology and Evolution. I. MR. JOHNSON

*Hours and credit to be arranged, I, II.* Not more than one semester hour of credit per week full-time schedule, or one semester hour each two weeks for half-time schedule. *(Laboratory fee, \$3.00 for each three hours of credit; minimum fee, \$2.00.)*

*The following courses will be given at the Beaufort Marine Laboratory:*

**S204. Animal Parasites.**—*II. 6 s.h.* MR. PEARSE

**S219 or S353. Special Problems, Research.**—*I, II.*  
 MR. PEARSE, MR. BOOKHOUT

**S274. Invertebrate Zoology.**—*I. 6 s.h.* MR. BOOKHOUT

**S355. Biological Seminar.**—*I, II. 1 s.h. each term.*  
 MR. PEARSE, MR. OOSTING, MR. BOOKHOUT

For particulars as to expense, etc., write the Director of the Summer School or Dr. A. S. Pearse, Chairman of the Zoology Department, Duke University, after April 15. If for any reason these courses tentatively offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

*Specimen Application Blank*

DIRECTOR OF SUMMER SCHOOL, DUKE STATION  
DURHAM, NORTH CAROLINA

Dear Sir :

Please make temporary reservation for me in the following courses described in your Summer School Announcement.

.....  
.....  
(Signed, full name)  
Mr., Mrs., Miss.....

Street .....

Post Office Address .....

Date .....

**Be careful to give the following information:**

Are you a teacher in the public schools?.....

Name of high school from which you were graduated.....  
.....

Number of years completed in college.....

Are you a graduate?.....

Name and address of the school in which you are teaching.....  
.....  
.....

Do you wish room reserved?..... Alone?.....

First term, or Second?.....

In graduate dormitory?..... Undergraduate?.....

*N.B.* Graduate dormitories are not open to undergraduates under thirty years of age. Room reservations of graduate students are tentative until the student has been accepted by the Graduate School. Students who wish a room reserved for the first term will remit full amount of room-rent; other students simply indicate whether they desire room in graduate or undergraduate dormitory. The Summer School reserves the right to cancel room reservation or registration for courses without assignment of reason.

*Note:* Students who do not wish to submit transcripts of their previous college record, because desiring to transfer their summer school credits to some other institution, should answer the following:

*Do you wish blank for statement* from your college certifying your present class standing and requesting transfer of your summer school record?.....

*Announcement*

**JUNALUSKA SUMMER SCHOOL, INC.**

(AFFILIATED WITH DUKE UNIVERSITY)

and

**JUNALUSKA SCHOOL OF RELIGION**

LAKE JUNALUSKA, N. C.

PAUL NEFF GARBER, A.B., A.M., Ph.D.

DIRECTOR

**FACULTY**

ANDERSON, LEWIS EDWARD; B.S., Mississippi State College; A.M., Duke; Ph.D., University of Pennsylvania; BOTANY (Duke University).

BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31; EDUCATION (Visiting Instructor, Duke University).

CLARK, ELMER TALMADGE; A.B., Birmingham-Southern; A.M., George Peabody College; B.D., S.T.D., Temple University; LL.D., Southern College; RELIGION (Assistant Secretary, Board of Missions, Methodist Episcopal Church, South).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., University of Chicago; RELIGION (Duke University).

CRUM, MASON; A.B., Wofford; A.M., Ph.D., University of South Carolina; RELIGION (Duke University).

FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard; Duke, 1934-37; ENGLISH (Duke University).

GARBER, PAUL NEFF; A.B., Bridgewater; A.M., Ph.D., University of Pennsylvania; RELIGION (Duke University).

HICKMAN, FRANKLIN SIMPSON; A.B., DePauw; S.T.B., Boston University School of Theology; A.M., Ph.D., Northwestern; RELIGION (Duke University).

MC EWEN, NOBLE RALPH; A.B., Birmingham-Southern; A.M., Duke; Duke, 1930-32, 1938; EDUCATION (Salem College).

McLARTY, FURMAN GORDON; A.B., Duke; B.A. (Oxon.); Ph.D., Harvard; PHILOSOPHY (Duke University).

OWENS, HENRY GRADY; A.B., University of North Carolina; A.M., New York University; EDUCATION (Salem College).

PETRY, RAY C.; A.B., Manchester; A.M., Ph.D., University of Chicago; RELIGION (Duke University).

ROPP, THEODORE; A.B., Oberlin; A.M., Ph.D., Harvard; HISTORY (Duke University).

SMITH, RAYMOND ALEXANDER; A.B., Duke; B.D., Ph.D., University of Chicago; SOCIOLOGY (Greensboro College).

WIGGINS, ROBERT LEMUEL; A.B., Emory; A.M., Vanderbilt; Ph.D., University of Virginia; ENGLISH (Wesleyan College).

### BUSINESS MANAGER

JAMES R. BOYD  
Waynesville, North Carolina

### CALENDAR, REGISTRATION, AND ADMISSION

The Junaluska Summer School, Inc., and the Junaluska School of Religion will open June 9 and close July 21. Recitations will be held five days in the week, all Mondays except June 12 being holidays. Tuesday, July 4, will be observed as Independence Day. The annual Duke Day Celebration will be held on Monday, July 10.

Thursday, June 8, is reserved for the registration of students from Haywood County; Friday, June 9, is registration for all other students. Regular classes will meet at 8:15 Saturday morning, and recitation work will begin at once.

Certificates of high-school graduation and other credentials should be submitted to the Director at the time of registration.

### JUNALUSKA SCHOOL OF RELIGION

The twelfth session of the Junaluska School of Religion, which is conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South, will be conducted as the Department of Religion in the Junaluska Summer School for the summer of 1939, its opening and closing dates being the same as for the other departments. In addition to the undergraduate credits offered by the other departments, Junaluska School of Religion will offer credits counting toward the degree of Bachelor of Divinity. The work in Religion is designed for pastors, church workers, missionaries, and students who desire to fit themselves more efficiently for their work or to obtain credits looking toward the securing of university degrees.

### COURSES OFFERED

Professional courses are offered for teachers in elementary schools, teachers of primary grades and of grammar grades, and teachers of high-school subjects, for freshmen and sophomore students in colleges and for students desiring somewhat more advanced work in the field of religion.

For qualified college students, instruction will be offered in botany, education, English, history, philosophy, sociology, and religion. Credit is allowed toward the A.B. degree at Duke University for these courses, credit toward the A.M. degree for the courses in field botany, and credit toward the B.D. degree for the advanced courses in religion.



## COURSES IN FIELD BOTANY

Special courses in field botany will be offered to public school teachers of nature study, high-school teachers of botany and biology, and to qualified college students. The courses are unique in that they will consist of a careful survey of the plant life found in the mountains of western North Carolina. Frequent excursions and field trips will be made to Mount Mitchell, Mount Pisgah, the famous Pink Beds, and other sections abundant in unusual flora. A considerable amount of time will be spent in the new Great Smoky Mountain National Park area.

## FEES AND EXPENSES

Tuition charge for college students other than teachers is \$10. Teachers are exempt from tuition, as are also ministerial students who register in the Junaluska School of Religion. Expenses may therefore be estimated by teachers and School of Religion students as follows:

	Low	High
Registration .....	\$20	\$20
Room and Board .....	50	72
Library and Recreation Fee .....	2	2
	<hr/>	<hr/>
	\$72	\$94

To this should be added about \$5 for books and probably \$5 for miscellaneous expenses, besides the tuition charge for students other than teachers. Since Haywood County contributes toward the registration fees of its teachers, Haywood County teachers pay only \$8 of the total registration fee.

## THE MISSION INN

The Mission Inn at Lake Junaluska is the headquarters for the Junaluska Summer School. It is also the center for the social and recreational life of the school. All classes are held in this building. The Mission Inn is operated on the American Plan.

In addition to the Mission Inn there are other hotels and lodging places on the Junaluska Assembly Grounds. For further information, address Paul N. Garber, Director of Junaluska Summer School, Inc., Duke University, Durham, N. C.

There are available for rent during the summer season several desirable private cottages within a few minutes walk of the school. For detailed information, write Business Manager, Southern Assembly, Lake Junaluska, N. C.

## COURSES OF INSTRUCTION

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(*Note.* In the description of courses the following abbreviations occur: *Period A* means that the course comes the first eighty minutes daily, beginning at 8:15; *Period B* means that the course comes at the eighty-minute period beginning at 9:45; *Period D* means that the course meets an eighty-minute period daily, beginning at 11:45. All courses carry three semester hours credit unless otherwise specified.)

For complete bulletin giving description of courses, address Dr. Paul N. Garber, Director of Junaluska Summer School, Duke Station, Durham, N. C.

### BOTANY

**S225. Field Botany.**—The aim of this course is to present to the students a first-hand knowledge of plants in their native habitats. The field work will be done in the mountain areas of western North Carolina and will include the Pisgah Forest and Smoky Mountain sections. The course will consist of practice in the identification of plants in the field and a study of their natural history and associations. Field trips daily, also lectures, readings, reports, etc. 4 or 6 s.h. Schedule to be arranged. *Graduate or undergraduate credit.*

MR. ANDERSON

**S226. Special Problems.**—Open only to students with training equivalent to S225. The work may involve either field and laboratory study of special taxonomic groups or the investigation of ecological relationships in some of the varied local plant communities. 2 to 6 s.h. *Schedule to be arranged. Graduate or undergraduate credit.*

MR. ANDERSON

### EDUCATION

**S58. The Learning Process.**—*A.*

MR. OWENS

**S83. Current Trends in American Public School Organization.**—*A.*

MR. BARDEN

**S103. School Organization and Administration for the Classroom Teacher.**—*D.*

MR. BARDEN

**S104. History of Education in the United States.**—*B.*

MR. McEWEN

**S105. Introduction to Educational Sociology.**—*A.*

MR. SMITH

**S121. Grammar Grade Methods in Reading and Language.**

MR. OWENS

**S158. Educational Measurements.**—*D.*

MR. McEWEN

### ENGLISH

**S60. Contemporary Poetry.**—*A.*

MR. FITZGERALD

**S123. Shakespeare.**—*D.*

MR. FITZGERALD

**S138. American Literature.**—*B.*

MR. WIGGINS

## HISTORY

- S51. Modern and Contemporary Europe, 1500-1814.—*B.* MR. ROPP  
 S52. Modern and Contemporary Europe since 1814.—*D.* MR. ROPP

## PHILOSOPHY

- S48. Introduction to Logic and Scientific Method.—*D.* MR. McLARTY  
 S101. Introduction to Philosophy.—*A.* MR. McLARTY

## SOCIOLOGY

- S112. Introduction to Child Welfare.—*B.* MR. SMITH

## RELIGION

- S210. The Religion of Jesus.—*A.* MR. K. W. CLARK  
 S231. The Social Message of the Christian Church.—*B.* MR. PETRY  
 S235. Modern Religious Leaders.—*B.* MR. GARBER  
 S273. Pastoral Psychology.—*D.* MR. HICKMAN  
 S281. Missions in the Modern World.—*A.* MR. E. T. CLARK

## FOR UNDERGRADUATES ONLY

- S51. The History of the Hebrew People.—*D.* MR. PETRY  
 S52. New Testament Literature.—*B.* MR. CRUM  
 S131. American Christianity.—*A.* MR. GARBER  
 S170. Religion and the Modern Home.—*A.* MR. CRUM  
 S182. Founders and Literatures of Great Religions. MR. E. T. CLARK

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VOLUME 11

March, 1939

NUMBER 3-E

# BULLETIN OF DUKE UNIVERSITY

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*The School of Law*



ANNOUNCEMENT FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

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For BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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Published by Duke University in January, February, March, April, May, and June. Entered as Second Class Matter March 25, 1929, at the Post Office at Durham, N. C., Under the Act of August 24, 1912.



BULLETIN  
OF  
DUKE UNIVERSITY  
THE SCHOOL OF LAW



ANNOUNCEMENT FOR 1939-1940

DURHAM, NORTH CAROLINA  
1939



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## UNIVERSITY CALENDAR

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1939

- Sept. 20. Wednesday—Registration of Law Students.  
Sept. 21. Thursday—Commencement of Instruction.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 11. Monday—Duke University Day.  
Dec. 20. Wednesday—1:00 P.M. Christmas recess begins.

1940

- Jan. 3. Wednesday—8:30 A.M. Instruction is resumed.  
Jan. 17. Wednesday—Mid-year examinations begin.  
Jan. 31. Wednesday—Last day for matriculation for second semester.  
Feb. 1. Thursday—Second semester begins.  
March 23. Saturday—1:00 P.M. Spring vacation begins.  
April 1. Monday—8:30 A.M. Instruction is resumed.  
May 17. Friday—Final examinations begin.  
June 1. Saturday—Commencement opens; Faculty breakfast for Law Seniors.  
June 2. Sunday—President's Address to Graduating Class.  
June 3. Monday—Commencement Address; Graduating Exercises.





## I. FACULTY

---

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.

PRESIDENT OF THE UNIVERSITY

H. CLAUDE HORACK, Ph.B., LL.B., LL.D.

DEAN AND PROFESSOR OF LAW

Ph.B. 1899, LL.B. 1900, State University of Iowa; LL.B. 1904, Harvard University; LL.D. 1937, Tulane University; Assistant Professor of Law, University of Wisconsin, 1904-07; Professor of Law, State University of Iowa, 1907-30; University of Michigan, summer 1922; University of Wisconsin, summer 1924; University of Southern California, summer 1931; Stanford University, summer 1936; Advisor, Council of Legal Education and Admissions to the Bar of the American Bar Association, 1927-30; Secretary, Association of American Law Schools, 1926-28, President, 1929; Professor of Law, Duke University, 1930-34; Dean and Professor of Law, since 1934.

BRYAN BOLICH, A.B., B.A. (Juris.), M.A., B.C.L.

PROFESSOR OF LAW

A.B. 1917, Duke University; Duke University Law School, 1919-21; B.A. (Juris.) 1923, B.C.L. 1924, M.A. 1927, Oxford University; general practice, 1924-27; Professor of Law, Duke University, since 1927.

JOHN S. BRADWAY, A.B., A.M., LL.B.

PROFESSOR OF LAW AND DIRECTOR OF THE LEGAL AID CLINIC

A.B. 1911, A.M. 1915, Haverford College; LL.B. 1914, University of Pennsylvania; general practice, 1914-29; Legal Aid Society of Philadelphia, 1914-20; chief counsel, Philadelphia Legal Aid Bureau, 1920-22; Secretary, National Association of Legal Aid Organizations since 1923; Visiting Professor of Law and Director of the Legal Aid Clinic, University of Southern California, summer 1928; Professor of Law and Director of the Legal Aid Clinic, University of Southern California, 1929-31; Professor of Law and Director of Legal Aid Clinic, Duke University, since 1931.

THADDEUS DILLIARD BRYSON, LL.D.

PROFESSOR OF LAW

Emory and Henry College, 1889-90; University of North Carolina, 1891-95; LL.D. 1938, Emory and Henry College; general practice, 1895-1918; Solicitor, 20th Judicial District, North Carolina, 1908-16; Judge, Superior Court, North Carolina, 1918-26; general practice, 1926-27; Professor of Law, Duke University, since 1927.

DAVID F. CAVERS, B.S., LL.B.

PROFESSOR OF LAW

B.S. in Econ. 1923, University of Pennsylvania; LL.B. 1926, Harvard University; general practice, 1926-29; Instructor in Law, Harvard University, 1929-30; Assistant Professor of Law, West Virginia University, 1930-31; Visiting Professor of Law, Yale University, first semester, 1936-37; Assistant Professor of Law, Duke University, 1931-32; Professor of Law, Duke University, since 1932.

LON L. FULLER, A.B., J.D.

PROFESSOR OF LAW

A.B. 1924, J.D. 1926, Stanford University; Assistant Professor of Law, University of Oregon, 1926-27; Associate Professor of Law, University of Oregon, 1927-28; Associate Professor of Law, University of Illinois, 1928-30; University of Chicago, summer 1930, 1933; Professor of Law, University of Illinois, 1930-31; University of Washington, summer 1931; University of North Carolina, summer 1934; University of Southern California, summer 1937; Professor of Law, Duke University, since 1931.

ELVIN R. LATTY, B.S., J.D., J.Sc.D.

PROFESSOR OF LAW

B.S. 1923, Bowdoin College; J.D. 1930, University of Michigan; J.Sc.D. 1936, Columbia University; Instructor in Romance Languages, University of Vermont, 1923-27; general practice, 1930-33; Special Fellow, Columbia University, 1933-34; Associate Professor of Law, University of Kansas, 1934-35; Professor of Law, University of Missouri, 1935-37; George Washington University, summer 1937; Stanford University, summer 1938; Professor of Law, Duke University, since 1937.

## CHARLES LUCIEN BAKER LOWNDES, A.B., LL.B., S.J.D.

## PROFESSOR OF LAW

A.B. 1923, Georgetown University; LL.B. 1926, S.J.D. 1931, Harvard University; general practice, 1926-27; Assistant Professor of Law, Georgetown University, 1927-28; Professor of Law, Georgetown University, 1928-30; research fellow, Harvard Law School, 1930-31; Professor of Law, Georgetown University, 1931-34; Professor of Law, Duke University, since 1934.

## MALCOLM McDERMOTT, A.B., LL.B.

## PROFESSOR OF LAW

A.B. 1910, Princeton University; LL.B. 1913, Harvard University; general practice, 1913-30; Dean, College of Law, University of Tennessee, 1920-30; University of Southern California, summer 1929; Professor of Law, Duke University, since 1930.

## DOUGLAS BLOUNT MAGGS, A.B., J.D., S.J.D.

## PROFESSOR OF LAW

A.B. 1922, J.D. 1924, University of California; S.J.D. 1926, Harvard University; general practice, 1924-25; Assistant Professor of Law, University of California, 1926-27; Professor of Law, University of Southern California, 1927-30; Visiting Professor of Law, Columbia University, 1928-29; Yale University, second semester, 1935-36; University of California, summer 1927; Cornell University, summer 1928; University of Chicago, summer 1929; Stanford University, summer 1935; University of North Carolina, summer 1936; Special Assistant to the Attorney General of the United States, 1938-39; Professor of Law, Duke University, since 1930.

## J. DOUGLASS POTEAT, A.B., LL.B., J.S.D.

## PROFESSOR OF LAW

A.B. 1923, LL.B. 1926, Furman University; J.S.D. 1933, Yale University; general practice, 1926-30, 1933-36; Associate Professor of Law, Furman University, 1929-30; Professor of Law, Furman University, 1930-33; Professor of Law, Duke University, since 1936.

## WILLIAM R. ROALFE, LL.B.

## LAW LIBRARIAN

LL.B. 1922, University of Southern California; general practice, 1923-25; Law Librarian, University of Southern California, 1927-30; President, American Association of Law Libraries, 1935-36; Law Librarian, Duke University, since 1930.

## PAUL H. SANDERS, A.B., LL.B.

## ASSISTANT PROFESSOR OF LAW

A.B. 1931, Austin College; LL.B. 1934, Duke University; general practice, 1934; Assistant to Director of National Bar Program, American Bar Association, 1934-36; Assistant Professor of Law, Duke University, since 1936.

## EDWIN CONSTANT BRYSON, LL.B.

## ASSISTANT IN LEGAL AID CLINIC

University of North Carolina, 1922-26; LL.B. 1937, University of Oregon; general practice, 1927-30; Legal Aid Clinic Staff, Duke University, since 1931.

## MARY SIMMONS COVINGTON, A.B., LL.B.

## RESEARCH LIBRARIAN, SCHOOL OF LAW

A.B. 1905, Shorter College; LL.B. 1922, George Washington University; general practice, 1924-30; Research Librarian, School of Law, Duke University, since 1930.

## CHARLES HENDERSON MILLER, A.B., LL.B.

## ASSISTANT IN LEGAL AID CLINIC

A.B. 1928, LL.B. 1934, Duke University; Legal Aid Clinic Staff, Duke University, since 1931.

## HELEN MILDRED KENDALL, A.B.

## REGISTRAR

A.B. 1925, DePauw University; graduate work, University of Wisconsin, 1934; Registrar, School of Law, Duke University, since 1935.

**FACULTY COMMITTEES**

*Committee on Curriculum:* H. C. Horack, Chairman, Bryan Bolich, John S. Bradway, Douglas B. Maggs, Malcolm McDermott, Elvin R. Latty.

*Committee on Graduate Study:* Lon L. Fuller, Chairman, David F. Cavers, H. C. Horack, Charles L. B. Lowndes, Douglass Poteat.

*Committee on Rules:* Charles L. B. Lowndes, Chairman, Bryan Bolich, David F. Cavers, Paul Sanders.

*Committee on Scholarship:* Malcolm McDermott, Chairman, Lon L. Fuller, Douglass Poteat.

*Committee on Emergency Aids and Loans to Law Students:* John S. Bradway, Chairman, T. D. Bryson, Mary S. Covington, Lon L. Fuller, Elvin R. Latty.

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**LAW SCHOOL COMMITTEE OF THE BOARD OF TRUSTEES**

Willis Smith, Raleigh, North Carolina.

James A. Bell, Charlotte, North Carolina.

W. R. Perkins, New York City.

B. S. Womble, Winston-Salem, North Carolina.

## II. ORGANIZATION, EQUIPMENT, AND SPECIAL ACTIVITIES

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### HISTORY AND ORGANIZATION

Legal instruction in Trinity College dates from 1850, but it was not until 1868 that professional training in law was offered. The two chairs in the Department of Law were those of National and Constitutional Law, and Common and Statute Law. President Braxton Craven occupied the former from 1868 until his death in 1882. Outstanding members of the bench and bar were specially engaged, in given years, to lecture on particular subjects. Complete instruction was given "by daily lectures and regular examinations," and students were "fully prepared to obtain license."

In 1882 the Department of Law was discontinued. In 1891 instruction in law was resumed, with the appointment of the Honorable A. C. Avery, Associate Justice of the Supreme Court of North Carolina, as dean of the Law School, and continued until 1894.

The School of Law of Trinity College was founded in the summer of 1904 upon an endowment established by James B. Duke and Benjamin N. Duke. Samuel Fox Mordecai organized the School and was its dean until his death in 1927. Its establishment set a new standard in Southern legal education in that it was the first school to require college work as preliminary to law study. It required the completion of two years of college work as prerequisite to entrance, the case method was used as the basis of instruction, and the completion of three years of resident study was required for a law degree.

In 1924 the School of Law of Trinity College became the Duke University School of Law pursuant to the establishment of the Duke Endowment. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. In 1931 the entrance requirement was raised from two to the present requirement of three years of college work. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association.

The ideas of the founder with reference to the University and its training of lawyers are thus expressed in the indenture and deed of trust establishing the Duke Endowment:

I have selected Duke University as one of the principal objects of this trust, because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines is, next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees and faculty, men of such outstanding character, ability and vision as will assure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character,

determination and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind.

### PURPOSES AND METHOD OF INSTRUCTION

The School of Law offers such courses in its curriculum as will provide an adequate preparation for the practice of law in any state. Through facilities for study and research, training is afforded for those desiring to specialize in particular branches of the law.

It is conceived that the trust imposed by the Duke indenture cannot be discharged by the mere instruction of the student in the rules and principles of law which have received acceptance in a single state or in common law jurisdictions generally. The method of legal education employed in the School of Law, by compelling analysis of judicial opinions and inquiry into the various legal and nonlegal considerations underlying them, acquaints the student not only with legal doctrine, but also with the judicial process and the role of the courts as creative agencies in social development.

The curriculum has been arranged with a view to insuring not only a balanced selection of courses in the first two years of study, but also an opportunity for some degree of specialization in the third year so that by intensive work in a single field the student may acquire a degree of mastery of its problems. The increasing interrelation of the economic and political problems in the life of the nation and the consequent responsibility of the lawyer in effecting the necessary adjustments are recognized in an ample offering of courses in which special consideration is given to the work of the legislative and administrative agencies of government.

To provide scope for creative work by the student, seminar courses and the courses in Current Decisions are offered. To achieve balance between intellectual discipline and that practical training which the young lawyer is otherwise left to obtain at the expense of his clients, courses are offered in Research and Briefing and Practice Court, and the third-year class participates in the work of the Legal Aid Clinic.

Through the organization of the student body in a Bar Association, a medium is afforded for extracurricular activity designed to awaken in the student a sense of his responsibilities as a member of his profession and to familiarize him with a type of organization through which some contribution to the well-being of his profession and society may be made.

The courses of study offered in the School of Law are described at pages 26 to 32 of this bulletin.

### THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar



rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library.

### THE LAW LIBRARY

The Law Library contains a collection of more than sixty thousand volumes and is the largest law school library in the South. It consists of American and English statutory and case law; a collection of Continental Law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

There are several thousand additional volumes of a legal nature in the main library building, immediately adjoining the Law School, as well as the general collection of nearly a half million volumes, to all of which the law students and Faculty have convenient access.

The Law Library is administered by a professionally trained staff and is open to the public daily throughout the year and in the evenings as well whenever the Law School is in session.

### THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, Secretary of the National Association of Legal Aid Organizations, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community. The student is obliged to synthesize his knowledge in applying it to concrete situations which may often cut across course boundaries. He is trained in the technique of fact-gathering, the strategy of a law suit, the handling of clients, and the management of a law office. Classroom work is given, supplementing the handling of actual cases. The practice in the Clinic is of a sort calculated to stress the ethical responsibilities of the lawyer and the social implications of his work. The latter aspect of this work is developed further by contacts with various agencies of social welfare in North Carolina.

The Legal Aid Clinic is in effect a large, well-rounded law office offering the student experience in interviewing clients, investigation of facts, preparing cases for adjustment or for trial in court, briefing, and other tasks familiar to the practicing attorney. Approximately three hundred persons a year apply for the services of the Clinic. Only those applicants who are unable to pay counsel fees and only those cases where there is no opportunity for a contingent fee are accepted.



The activities of the Clinic are centered in a suite of offices in the Law School Building. In addition to the Director, a staff of four members of the North Carolina State Bar assist in the educational activities of the Clinic and in representing its clients in court proceedings. The course is required of members of the third-year class.

### THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, for eight years Judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer third-year students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.

The course features trial court practice in both civil and criminal actions, appellate practice, the drawing of contracts and wills, making abstracts of title, and drafting of other legal papers incident to the work of the active legal practitioner. In order that the work may correspond to the work of a trial court, a courtroom with the usual appointments has been provided.

### LEGAL PERIODICALS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professor Cavers. This periodical, now in its sixth volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. Included among the topics discussed in the first five volumes of *Law and Contemporary Problems* are food and drug control, low-cost housing, federal criminal laws, industrial and group-life insurance, instalment selling, migratory divorce, expert testimony, social security legislation, the compensation of the motor accident victim, the Securities Act of 1933, price discrimination and price cutting, and collective bargaining under the Wagner Act.

The circulation of *Law and Contemporary Problems* extends not only to members of the legal profession and law libraries throughout the country, but also to industrial and financial concerns, governmental agencies, and public and general university libraries. Individual issues are not infrequently used as materials for study in university courses.

The Duke Bar Association has published since 1933 the *Duke Bar Association Journal* in which appear reports of addresses made before the Association by distinguished guests, proceedings of the Association at its regular meetings, and items of interest concerning the School. To afford a medium for the publication of the student notes and comments on recent important decisions prepared in the Current Decisions course without necessitating the inclusion in the quarterly of the department of

student work usual in "law reviews," the *Journal* publishes such notes and comments as are deemed by the editors to be of special merit. Professor Cavers serves as adviser to the student editorial board of the *Journal*.

#### THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. It publishes the *Duke Bar Association Journal*, described in the preceding section. Its activities are carried on by the students with the co-operation of Dean Horack of the Law Faculty as general adviser.

### III. GENERAL INFORMATION

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#### MATRICULATION, REGISTRATION, AND ENROLLMENT

On the day of registration, September 20, 1939, the applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedule and course cards must be filled out and approved. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Instruction will begin in all classes on Thursday, September 21, 1939.

All students are admitted subject to the rules of the University and of the School of Law, and continuance in the School is conditioned upon the observance of such rules.

#### FEES AND EXPENSES

Tuition and registration fees are due at the beginning of each semester. The matriculation fee is \$25.00 a semester. The tuition fee is \$100.00 a semester. A damage fee of \$1.00 is collected at the beginning of the first semester only, an athletic fee of \$5.00 at the beginning of each semester, a library fee of \$5.00 each semester, and a medical fee of \$5.00 each semester. The graduation fee, payable by all students to whom a degree is awarded, is \$10.00.

Payment of the athletic fee entitles the student to admittance to all athletic events on the campus.

The payment of the medical fee entitles a student to full medical and surgical care, with the exceptions noted below. This service is under the direction of the University Physician with the co-operation of the Staff of Duke Hospital. It includes hospitalization, medical and surgical care, drugs, dressings, X-ray studies, and ward nursing. A charge for board is made at the same rate as in the University dining halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic conditions, such as the removal of diseased tonsils, are not included in this service. The cost of any necessary braces and orthopedic appliances as well as of special nursing must be borne by the student.

Furnished double rooms may be secured in the Graduate Dormitory on the West Campus at \$62.50 per person per semester. A few single rooms are available at \$75.00 per semester. There are a very limited number of double rooms on the East Campus (about a mile and a half from the Law Building) at \$30.00 to \$50.00 per person per semester.

A group of log cabins especially designed as a study center for law students is located in the Duke Forest about five minutes' walk from the

Law Building. These cabins, five in number, including a large cabin for use as a social hall, house thirty-two students, about one-third of the space being allotted to each of the three law classes. Furnished double rooms in the log cabins may be secured at \$40.00 per person per semester.

These charges in each case include heat, light, water, and janitorial service but do not include pillows or bed clothing of any kind.

Law students are advised to make early application as assignment of rooms is made soon after the middle of May. The applicant should state that he has been accepted for admission to the School of Law. All dormitory rooms are to be occupied under the rules and regulations established by the University. Law students are not required to live in the University dormitories.

The *General Bulletin* of the University contains the following statements concerning the reservation of dormitory rooms:

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

Board may be secured at approximately \$25.00 per month at the University Union.

The cost of law books will average, through the three years, between \$20.00 and \$30.00 per semester.

### SCHOLARSHIPS AND STUDENT AIDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented before May 1 to the Dean of the Law School, together with a transcript of college work and

letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

Other scholarships are awarded, as funds may permit, to students who have spent a year or more at the Law School. There are also a number of positions as assistants in the Law Library and as research assistants which are open to students particularly in their second or third year, who do not receive other aids from the University.

Scholarships are, in addition, granted each year to the three students with the best scholastic records in the first- and second-year classes. Under this plan scholarships were awarded for 1938-39 to the following members of the first-year class of 1937-38: Joseph Laufer, Durham, N. C.; Murray Garber, Bradford, Pa.; William Andrus, Los Angeles, Calif.; and to the following members of the second-year class in that year: Gustav B. Margraf, Cape Girardeau, Mo.; Robert W. Bogue, Parker, S. D.; and Eugene Desvernine, Havana, Cuba.

The University administers certain endowed loan funds for the benefit of students who are not financially able to meet their expenses, for the purpose of aiding worthy students who have established a satisfactory record at the School to continue their education.

Two funds have been provided out of which small loans may be made to tide students over temporary financial emergencies arising during the course of the year. One of these was supplied by the Law School Guild and is limited as to amount and duration of loan. The other is due to the generosity of Mr. P. Frank Hanes of the Winston-Salem bar and is limited to the needs of selected students. These funds are administered by a committee of the Faculty.

### AWARDS

*Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. The winner of the prize for 1932 was Jeter S. Ray, Newport, Tenn.; for 1933, William B. McGuire, Jr., Franklin, N. C.; for 1934, Robert Gilpin Seaks, Harrisburg, Pa.; for 1935, Erle Pettus, Jr., Birmingham, Ala.; for 1936, Edward Rubin, Los Angeles, Calif.; for 1937, William R. Perdue, Jr., Macon, Ga.; and for 1938, Thomas E. Butterfield, Jr., Bethlehem, Pa.

### ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the Senior Class who have attained the highest rank



in their law school work. Those receiving this honor in the graduating class of 1938 were Edward B. Bulleit, Gettysburg, Pa.; Thomas E. Butterfield, Jr., Bethlehem, Pa.; and Richard M. Cann, Greensboro, N. C.

### CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University, therefore, reserves the right, and matriculation by the student is a concession of this right, to compel the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

### RECREATIONAL FACILITIES

The University is located about two miles from the business district of Durham on wooded hills constituting part of the five-thousand-acre Duke Forest which is maintained by the School of Forestry. Within a short distance from the campus are facilities for golf, horseback riding, and woodland hiking. These activities are available the year round in the mild climate of the Piedmont section of North Carolina. Students of the Law School are entitled to the use of the University gymnasium, tennis courts, swimming pool, and similar privileges without cost. Motion pictures are shown in the Page Auditorium twice a week, and concert programs, recitals, lectures, and plays are presented frequently.



## IV. ADMISSION OF STUDENTS

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### DIRECTIONS TO APPLICANTS FOR ADMISSION

Applications should be made on the prescribed Law School application blanks which will be sent upon request, and no application is complete until all required documents are on file. Each application for regular or advanced standing must be accompanied by a complete transcript of record and evidence of graduation or right to honorable withdrawal from the institution from which credit is offered. To the application blank should be attached a recently made personal photograph. Letters from responsible persons, certifying to the character and ability of the applicant, are required.

It is desired that students may be selected who give promise of leadership in some of the various phases of professional activity. It is recognized that such selection is difficult. However, graduation from Duke University School of Law is intended to constitute evidence of capacity for superior work in some branch of the profession of law. Applicants for admission and their sponsors are requested to keep this fact in mind.

### REQUIREMENTS FOR ADMISSION

Any person may be admitted as a candidate for the degree of Bachelor of Laws (1) who is a graduate of a college of approved standing, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation, the requirement in each case being determined by the regulations of the college where the work was taken.

### COMBINED COURSE

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work, to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course wherein he will have received his academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester hours of undergraduate work in the pre-legal group of studies in Duke University may on the approval of the Dean of the Undergraduate College transfer to this Law School and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester hours of work of the first-year class in this School.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit toward the Bachelor's degree.

It should be noted that while the Combined Course plan of securing two degrees is restricted to those who have taken the "pre-legal course," general admission to the Law School is not so restricted.

### ADMISSION TO ADVANCED STANDING

Any person, who has complied with the requirements for admission set forth in this announcement, prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum of the Law School at any law school which is a member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed shall be given, final credit for such work to be conditioned on the completion of at least one full year of law study in this School with an average of at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be by vote of the Faculty.

### CANDIDATES FOR GRADUATE DEGREES

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work. For the requirements for the graduate degrees see pages 24 and 25.

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Further information will be sent upon request. Please address

THE DEAN OF THE SCHOOL OF LAW  
DUKE UNIVERSITY  
Durham, North Carolina

## V. REQUIREMENTS FOR BACHELOR OF LAWS DEGREE—STUDENT PROGRAMS

### BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed three years' study of law, the last full year of work immediately preceding the granting of such degree having been completed, except under extraordinary circumstances, in this School.

A student shall be deemed to have completed successfully three years' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program of study plus forty-eight semester hours;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if such grade is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their third year of study in residence in this School must have received an average grade at least five points above passing for that year.

### THE FIRST-YEAR PROGRAM

All of the first-year courses are required for graduation, and no second- or third-year courses may be elected until the student has secured grades not requiring repetition of any first-year courses or has made provision for the completion thereof.

The following courses comprise the work of the first year:

<i>Subject</i>	<i>Hours per semester</i>	
Chattel Transactions .....	2	2
Contracts .....	3	3
Criminal Law and Its Administration .....	2	2
Torts .....	3	2
Introduction to Procedure .....	2	
Legal Bibliography .....	1	
Agency .....		2
Possessory Estates .....		2
	13	13

## SECOND- AND THIRD-YEAR PROGRAMS

The course in Research and Briefing is required of those second-year students who have not been selected to take the course in Current Decisions I. The course in Legal Aid Clinic is required of those third-year students who have not been selected to take the course in Current Decisions II. The course in Legal Ethics is required of all third-year students. For descriptions of the content of these courses, see pages 26 to 32.

With the exceptions noted above, all courses offered for the second and third years are elective. For the guidance of second-year students in 1939-40, the Faculty recommends the inclusion of the following courses in their programs of study:

<i>Subject</i>	<i>Hours per semester</i>	
Constitutional Law .....	2	3
Equity .....	2	2
Pleading (Prerequisite to Practice) .....	2	1
Research and Briefing .....	1	1
Bills and Notes .....	3	
Conveyancing .....	3	
Business Associations I .....		3
Credit Transactions .....	2	2
Trusts .....		3
	15	15

For the student who wishes to take in his second year, courses other than those listed above, the following are suggested as suitable for study in the second year:

<i>Subject</i>	<i>Hours per semester</i>	
Family Law .....	2	
Landlord and Tenant .....	2	
Municipal Corporations .....	2	
Future Interests .....		3
Wills and Administration of Estates .....		3

It should be distinctly understood that the courses in this second list are not suggested as either more or less suitable for study in the third year than those not included therein. In the selection of courses in addition to or in substitution for those recommended above, the student should consult the course groupings appearing at another place in this bulletin, so that he may choose those courses which will contribute most directly to his work in the field of study to which he wishes to devote his major efforts in the third year. The student intending to enter the general practice of law is cautioned, however, not to sacrifice, through undue concentration, the acquisition of a broad foundation for his subsequent activities.

The courses included in the above lists and all other courses offered are described at pages 26 to 32 of this bulletin. The courses offered which are not included in the above lists comprise:

<i>Subject</i>	<i>Hours per semester</i>	
Current Decisions I .....	1	1
Current Decisions II .....	1	1
Evidence .....	2	2
Legal Aid Clinic .....	2	2
Practice .....	2	2
Taxation .....	2	2
Administrative Law .....	2	
Business Associations II .....	3	
Conflict of Laws .....	3	
Debtors' Estates .....	3	
Insurance .....	2	
Legal Ethics .....	1	
Legal History .....	3	
Legislation .....	2	
Readings in Jurisprudence .....	2	
Damages .....		2
Family Law Seminar .....		2
Federal Jurisdiction and Procedure .....		2
Labor Law .....		2
Legislation Seminar .....		2
North Carolina Statutes .....		2
Regulation of Business .....		3
Roman Law: Comparative Law of Obligation .....		2
Seminar in Legal History .....		2

## **VI. GRADUATE WORK IN LAW**

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### **GRADUATE DEGREES**

The School of Law confers two graduate degrees, the degree of Master of Laws (LL.M.) and the degree of Doctor of Juridical Science (S.J.D.).

### **REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY**

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools and whose college course and law course combined shall have occupied at least six years, may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may be admitted, on vote of the Faculty, to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may be admitted by the Faculty to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

### **THE DEGREE OF MASTER OF LAWS**

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least one year a course of study approved by the Committee on Graduate Study.

The courses of study leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire a fourth year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education through the study of such subjects as jurisprudence and legal history; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

One year of resident study is required for the degree of Master of Laws. No thesis is required. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects



totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours' work is prescribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

#### **THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE**

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least one year engaged in research at this School and may in addition be required to complete a course of study prescribed by the Committee on Graduate Study.

## VII. COURSES OFFERED

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### 1. GENERAL COURSES

**Torts.** Liability in damages for injuries to person and property inflicted intentionally, negligently, or innocently; justification and excuse; contributory negligence; proximate cause. Liability for false representations, defamation, inducing breach of contract, interference with business relations, unfair competition, strikes, etc. Casebook to be announced. Three hours a week, first semester; two hours, second semester. PROFESSOR MAGGS

**Equity.** Powers of Courts of Equity and principles governing their exercise, with special emphasis on injunctions; general scope of the remedy of specific performance; part performance and the Statute of Frauds; equitable conversion; defences to specific performance; bills of peace, interpleader, *quia timet*, and to remove cloud on title. Cook, *Cases on Equity*, one-volume edition (2d ed.). Two hours a week throughout the year. PROFESSOR HORACK

**Trusts.** The nature, creation, and elements of a trust; charitable trusts; resulting and constructive trusts; administration of trusts; liabilities to third persons; transfer of the *cestui's* interest; persons bound by a trust; termination of a trust. Scott, *Cases on Trusts* (2d ed.). Three hours a week, second semester. PROFESSOR LOWNDES

**Conflict of Laws.** A study of the territorial jurisdiction of courts, the enforcement of foreign judgments, and the problems arising when the operative facts of a case are connected with jurisdictions having different rules of law. A part of the course will be directed to the study of assigned problems, utilizing related cases in the casebook for the purpose. Cheatham, Dowling, and Goodrich, *Cases and Other Materials on Conflict of Laws*. Three hours a week, first semester. PROFESSOR CAVERS

**Damages.** The measurement of damages with special emphasis upon the application of the standards of value and certainty, and upon the relation between the procedural and substantive aspects of damage litigation. McCormick, *Cases on Damages*. Two hours a week, second semester. PROFESSOR FULLER

**Family Law.** A seminar approach to the cases, statutes, and sociological theories covering the contract to marry, its formation and breach, marriage, annulment; divorce, separation; property rights; and international jurisdiction. Selected materials. Two hours a week, first semester. PROFESSOR BRADWAY

**Family Law Seminar.** A seminar approach to the efforts of the social sciences, including the law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. Class discussions are based upon cases as handled by domestic relations courts, and reports upon readings and projects. Written reports, on topics selected by the student, required in lieu of an examination. Family Law is prerequisite. Two hours a week, second semester. PROFESSOR BRADWAY

**North Carolina Statutes.** A study of selected statutes of North Carolina with discussion of their application, and an analysis of the decisions of the Supreme Court of North Carolina construing them. Two hours a week, second semester. PROFESSOR BRYSON

## 2. BUSINESS COURSES

**Contracts.** Modes of enforcing promises; the relation of contract law to deceit and estoppel in pais; the formation of contracts (offer and acceptance, consideration, the seal); conditions; impossibility; repudiation; third party beneficiaries; assignment; joint contracts; illegal bargains; the Statute of Frauds. The course deals generally with the remedies available in case of the breach of a promise and does not exclude those sometimes classed as "quasi-contractual" (e.g., restitution). Corbin, *Cases on Contracts* (2d ed.) and mimeographed materials. Three hours a week throughout the year.

PROFESSOR FULLER

**Agency.** Formalities incident to the creation and execution of the agency; construction of the grant of authority; duties of the agent to the principal; rights of the agent against the principal; claims of third persons for torts other than fraud; claims of third persons arising out of contracts and fraud; ratification; undisclosed principal; termination of the agency; construction of equivocal contracts as contracts of agency or contracts of sale. Magill and Hamilton, *Cases on Business Organization*. Two hours a week, second semester.

PROFESSOR LOWNDES

**Bills and Notes.** Negotiable and non-negotiable notes, bills of exchange, and checks; the legal effects of negotiability; the liabilities of primary and secondary parties; payment and discharge. Problems arising from the use of accommodation paper are not treated in this course but are taken up in Credit Transactions. Britton, *Cases on Bills and Notes* (2d ed.). Three hours a week, first semester.

PROFESSOR LOWNDES

**Business Associations I.** A study of the legal problems involved in the formation of business associations, with special emphasis on private corporation and partnership problems; the characteristics and the internal organization of such associations; the control and management of the going concern; and to some extent, the assembly of its funds and the distribution of its profits or losses and the termination of the enterprise. Frey, *Cases and Statutes on Business Associations*. Three hours a week, second semester.

PROFESSOR LATTY

**Business Associations II—Finance and Accounting.** A study of the distribution of profits and capital by corporations, partnerships and other business organizations and of corporation accounting in its relation to such distribution; the expansion of the business enterprise; the assembly of funds; the types of securities and their attributes; the authorization, issuance, and marketing of securities, including the provisions of relevant state or federal legislation. Mimeographed and other selected materials, and Frey, *Cases and Statutes on Business Associations*. Three hours a week, first semester.

PROFESSOR LATTY

**Credit Transactions.** Consideration of suretyship and guaranty, mortgages, letters of credit, trust receipts, contracts of accommodation parties on bills and notes, real property and chattel mortgages, pledges, conditional sales. Sturges, *Cases on Credit Transactions* (2d ed.). Two hours a week throughout the year.

PROFESSOR POTAT

**Debtors' Estates.** A comparative study of the various legal devices available for the administration of debtors' estates—compositions, assignments for the benefit of creditors, receiverships and bankruptcy including proceedings for debtors' rehabilitation and corporate reorganization under the Bankruptcy Act. Sturges, *Cases on the Administration of Debtors' Estates* (2d ed.). Three hours a week, first semester.

PROFESSOR POTAT

**Insurance.** The function and theory of insurance; personal insurance (life and accident); property insurance; insurable interest; warranties and representations; assignment; waiver and estoppel. Goble, *Cases on Insurance*. Two hours a week, first semester.

ASSISTANT PROFESSOR SANDERS

**Public Utilities.** See Public Law Courses, page 29, for description. Three hours a week, first semester.

[Not to be given, 1939-40.]

**Regulation of Business.** See Public Law Courses, page 29, for description. Three hours a week, second semester.

PROFESSOR CAVERS

### 3. PROPERTY COURSES

**Chattel Transactions.** Property in chattels, application of the concepts of possession and title in the law of personal property; bailment; artisan's lien; transfer of chattels by gift and sale; contracts of sale; warranties; rights and remedies of the buyer and seller. Special attention is given in this course to judicial process and technique. Problems of chattel mortgages, pledges, and of sales financing are not considered in this course except incidentally but are reserved for the course in Credit Transactions. Latty, *Cases and Materials on Chattel Transactions* (mimeographed) and Woodward, *Cases on Sales* (3d ed.). Two hours a week throughout the year.

PROFESSOR LATTY

**Possessory Estates.** Historical introduction to real property with a detailed consideration of the modern law of possessory estates in land, including the fee simple, the fee tail, the life estate, the estate for years, concurrent estates, and the incidents of possessory ownership relative to water, lateral and subjacent support. Powell, *Cases on Possessory Estates*. Two hours a week, second semester.

PROFESSOR BOLICH

**Conveyancing.** Form and execution of deeds; description in deeds; recording statutes; adverse possession and prescription; incorporeal interests in land; covenants and agreements running with the land; estoppel by deed. Kirkwood, *Cases on Conveyances*, and selected materials. Three hours a week, first semester.

PROFESSOR BOLICH

**Landlord and Tenant.** Treatment of certain incidents of the modern law of leases relating to business, residential, and agricultural properties, including the creation of leases, their general characteristics, possession, transfer, covenants, rents, security devices, and termination. Jacobs, *Cases and Materials on Landlord and Tenant*. Two hours a week, first semester.

PROFESSOR BOLICH

**Future Interests.** Future interests in real and personal property; reversions; vested and contingent remainders; executory interests; rights of entry; possibilities of reverter; gifts to classes; powers; perpetuities; construction of wills and deeds as affecting the validity and characteristics of the interests created thereby. Powell, *Cases on Future Interests* (2d ed.). Three hours a week, second semester.

PROFESSOR BOLICH

**Wills and Administration of Estates.** The rationale of succession; mental capacity to make a will; undue influence and fraud; execution of wills; testamentary character and intent; integration of wills; revocation of wills; condition and mistake; revalidation of wills; functions and necessity of probate and administration; grant of probate and administration; management, distribution and settlement of the estate. Mechem and Atkinson, *Cases on Wills and Administration*. Three hours a week, second semester.

PROFESSOR McDERMOTT

**Trusts.** See General Courses, page 26, for description. Three hours a week, second semester.

PROFESSOR LOWNDES

### 4. PUBLIC LAW COURSES

**Criminal Law and Its Administration.** Survey of criminal procedure and of the lawyer's function in the administration of criminal justice; theories of crime and of punishment in the criminal law; consideration of the criminal act

and of the mental element in crime; specific offenses at common law and as developed by statutes; appropriate defenses in relation to the specific crimes. Harno, *Cases and Materials on Criminal Law and Procedure*; Hall, *Theft, Law and Society*. Two hours a week throughout the year.

ASSISTANT PROFESSOR SANDERS

**Constitutional Law.** Judicial protection against arbitrary governmental action; the history of the notion of a "higher law"; the concepts applied and the constitutional clauses relied upon; the development and application of particular doctrines protecting from arbitrary governmental action individuals with respect to their persons and individuals and corporations with respect to their property and business activities. The division of fields of control between the federal and the state governments. Casebook to be announced. Two hours a week, first semester; three hours, second semester.

PROFESSOR MAGGS

**Administrative Law.** Quasi-legislative and quasi-judicial functions of administrative tribunals, boards, and officers. Constitutional limitations, growing out of the doctrine of the separation of powers and the doctrine of the non-delegability of legislative power, upon the creation and allocation of administrative functions. Practice and procedure before administrative tribunals, boards, and officers; constitutional limitations upon administrative procedure. Judicial control and review of administrative orders and decisions. Constitutional Law is prerequisite. Casebook to be announced. Two hours a week, first semester.

PROFESSOR MAGGS

**Labor Law.** The National Labor Relations Act and related legislation. Federal and state anti-injunction statutes and their background. The law relating to strikes and the conduct of strikers, the labor agreement and the responsibility of unions. Landis, *Cases on Labor Law*, and selected materials. Two hours a week, second semester.

ASSISTANT PROFESSOR SANDERS

**Legislation.** The interpretation of statutes; the subject matter and purpose of the statute; the context; associated words; parts of the statute in relation to the whole; extrinsic aids; statutes in relation to other statutes; statutes in relation to the common law; the applying of statutes; the operation and effect of statutes. Constitutional Law is prerequisite. DeSloovere, *Cases on Interpretation of Statutes*. Two hours a week, first semester.

PROFESSOR McDERMOTT

**Legislation Seminar.** Special study and research with respect to specific legislative problems and projects, involving a complete survey of the nature and mechanics of the legislative process. Legislation is prerequisite. Selected materials. Two hours a week, second semester.

PROFESSOR McDERMOTT

**Municipal Corporations.** The nature of municipal corporations; their external constitution; their internal constitution; their powers; their liabilities; remedies for and against municipal corporations. Stason, *Cases on Municipal Corporations*. Two hours a week, first semester.

PROFESSOR McDERMOTT

**Public Utilities.** A study of the general scope of utility regulation; the respective powers of nation and state and the respective functions of commissions and courts in the regulatory process; competition and monopoly; service and facilities; liability; valuation and rates. Smith, Dowling and Hale, *Cases on Public Utilities* (2d ed.). Three hours a week, first semester.

[Not to be given, 1939-40.]

**Regulation of Business.** A study of the common law doctrines concerning restraint of trade, and of federal and state anti-trust statutes and other current legislation regulating the conduct of business. Handler, *Cases and Materials on Trade Regulation*. Three hours a week, second semester.

PROFESSOR CAVERS



**Taxation.** The principal taxes are considered. Special stress is laid upon the federal tax system and the major federal taxes are analyzed in some detail. The course includes the constitutional law of taxation, both in its broader aspects and in its narrower incidence upon the particular types of taxes. Lowndes, *Cases and Materials on the Law of Taxation* (mimeographed). Two hours a week throughout the year. PROFESSOR LOWNDES

## 5. JURISPRUDENCE COURSES

**Readings in Jurisprudence.** The purpose of this course is to acquaint the student with the main currents of thought in legal philosophy and jurisprudence since Aristotle. Especial emphasis will be placed on critical studies of legal methodology. Enrollment in the course is limited to five. Admission only with the consent of the instructor. Two credit hours. A one-hour discussion meeting will be held each week. First semester. PROFESSOR FULLER

**Legal History.** A study of the development of fundamental English and American legal institutions, followed by a historical consideration of certain doctrines of the common law. Assigned readings and discussion meetings. Three credit hours. First semester. PROFESSOR BOLICH

**Seminar in Legal History.** This course is designed for graduate students, and will be offered only upon recommendation of the Committee on Graduate Study. Hours and credit to be arranged with the instructor upon approval of said Committee. Second semester. PROFESSOR BOLICH

**Roman Law: Comparative Law of Obligations.** The course deals primarily with the Roman law of obligations, supplemented by references to the modern German, French, and Swiss law. Emphasis is placed on method rather than on content, and the primary object of the course is to give the student a better orientation in the modern American law of contracts and torts. Knowledge of a foreign language is not essential. Intended primarily for senior and graduate students. Admission only with the consent of the instructor. Two hours a week, second semester. PROFESSOR FULLER

## 6. PROCEDURE AND PRACTICE COURSES

**Introduction to Procedure.** An introductory study of the most commonly used procedural devices by which disputes are brought before the courts for adjustment, and the techniques employed in the judicial process for effecting these adjustments, including the control of the trial court by appellate tribunals. The course will also include a study of modern reforms of pleading in so far as they are pertinent. Arnold and James, *Cases on Trials, Judgments and Appeals*. Two hours a week, first semester. PROFESSOR POTEAT

**Pleading.** Remedial law as applied in code jurisdictions. The form, theory, and classification of civil actions and special proceedings, together with a complete analysis of the several pleadings available in such actions and special proceedings. Throckmorton, *Cases on Code Pleading* (2d ed.). Two hours a week, first semester; one hour a week, second semester. PROFESSOR BRYSON

**Practice.** The practical work of lawyers; drafting instruments; preparation of pleadings and trial briefs; the various trial methods and steps taken in the trial of the case; removal of cases from state to federal courts; noting and perfecting appeals; the appeal briefs; procedure in the Supreme Court. Selected materials. Two hours a week throughout the year. PROFESSOR BRYSON

**Evidence.** Judicial notice; examination, competency and privilege of witnesses; rules of exclusion, with special emphasis on the hearsay rule; the parol evidence rule; supplementary topics. Tracy, *Cases on Evidence*. Two hours a week throughout the year. PROFESSOR McDERMOTT



**Federal Jurisdiction and Procedure.** Functioning of federal courts including such topics as original jurisdiction, removal of causes, the statutory court, appellate jurisdiction of the Circuit Courts of Appeal and Supreme Court. Consideration will also be given to the rules of civil procedure for the District Courts of the United States. Frankfurter and Shulman, *Cases on Federal Jurisdiction and Procedure*, revised edition. Two hours a week, second semester.

PROFESSOR POTEAT

**Legal Ethics.** A seminar approach to the legal problems of the lawyer and the profession. Readings are assigned in legal biography, law reform, the history of the profession, legal aid work. Class discussions cover canons of ethics, statutes, cases, opinions of grievance committees dealing with the daily problems of the practicing lawyer. A written report is required on some phase of the reform of the administration of justice. Required of all third-year students. Selected materials. One hour a week, first semester.

PROFESSOR BRADWAY

**Legal Aid Clinic.** The objectives of the course are: to give the student experience in actual cases; to develop creative skills, techniques and mental habits; to encourage a sense of responsibility to client, court, profession and community. Students under supervision of attorneys and in co-operation with members of the Durham bar, court officials and social agencies in the community, engage, so far as students may, in the handling of actual cases from the first interview with the client until the final disposition of the problem by litigation or otherwise. In the first semester, class discussions are devoted to problems of office organization, interviewing clients, and planning a campaign in a legal case. Trial briefs are prepared for lawyers in active practice. In the second semester, the emphasis is on dealing with members of other professional groups as expert witnesses, working with two or more clients in conciliation proceedings. Appellate briefs are written for lawyers in active practice. Exercises are provided in drafting legal documents. Opportunity is afforded for special work in fields of particular interest. The course affords practical applications of the principles of legal ethics and legal etiquette. Students are expected to demonstrate adaptability to office routine, dependability in action, maturity of legal judgment. Required of all third-year students except those selected for Current Decisions II. Bradway, *Handbook of the Legal Aid Clinic*. Two hours a week throughout the year.

PROFESSOR BRADWAY

**Bar Association Activities.** Advisory work in connection with voluntary student participation in the activities of the Duke Bar Association. Not for credit.

PROFESSOR HORACK

## 7. LEGAL RESEARCH AND WRITING

**Legal Bibliography.** A historical study of the development of law books with particular emphasis upon the more important sets and classes of volumes, together with actual practice in the use of the books themselves for the purpose of developing facility in legal research. One hour a week, first semester.

MR. ROALFE

**Research and Briefing.** Individual study of selected problems, involving the use of digests, encyclopedias, case reporter series, legal periodicals, etc.; the marshalling of authorities and preparation of memoranda of law, opinion, letters, trial and appellate court briefs, and related legal documents. Required of all second-year students except those selected for Current Decisions I. Selected materials. One hour throughout the year, in two sections.

PROFESSOR LATTY

**Current Decisions I.** In the first semester, instruction is given in the preparation of comments on appellate court decisions by means of class analysis and criticism of comments published in law reviews and similar comments prepared by the class. In the second semester, each student, after thorough research and consultation with faculty members, prepares comments on decisions selected by the class from advance sheets. Open only to, and, if elected in lieu of Research and Briefing, required of superior second-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Current Decisions II.** Preparation, as in Current Decisions I, of comments and longer notes on significant recent decisions. Open only to, and, if elected in lieu of Legal Aid Clinic, required of superior third-year students declared eligible by the Faculty. One hour throughout the year.

PROFESSOR CAVERS AND THE STAFF

**Student Editorial Work.** Selected students, members of the class in Current Decisions, may undertake the preparation of studies for publication in *Law and Contemporary Problems* under the supervision of the editor. Credit for this work will be given in Current Decisions.

PROFESSOR CAVERS

The foregoing courses as offered for the year 1939-40 are subject to such changes as may be found necessary.

Upon recommendation of the Committee on Graduate Study, seminars not listed in the bulletin may be created or arrangements made for supervision of special research by individual students in any subject.

## VIII. STUDENTS

### ENROLLMENT FOR 1938-39

#### FIRST-YEAR CLASS

Anderson, William Kimbrough	Kent, Ohio
B.S., Kent State University, 1936.	
Arst, Norton Jerome	Drew, Miss.
A.B., Louisiana State University, 1938.	
Ault, William Reign	Doylestown, Ohio
B.S., A.B., Kent State University, 1938.	
Barkman, Francis Elwood	Cumberland, Md.
A.B., St. John's College, 1938.	
Bragg, Harold Hoffman	Dodge City, Kansas
A.B., Baker University, 1938.	
Carr, Aute Lee	Grover Hill, Ohio
A.B., Butler University, 1938.	
Cooprider, Virgil Wayne	Pawhuska, Okla.
A.B., Kansas State Teachers College, 1938.	
Eakin, LeRoy, Jr.	Washington, D. C.
A.B., Duke University, 1938.	
Edwards, Fred Charles	Bloomsburg, Pa.
A.B., Duke University, 1938.	
Fischer, Charles Henry, Jr.	West Haven, Conn.
A.B., Duke University, 1938.	
Frampton, George Thomas	Scarsdale, N. Y.
A.B., Duke University, 1938.	
Gordon, Eugene Andrew	Brown Summit, N. C.
Elon College, 1935-37; Duke University, 1937-38.	
Graham, Champ Albert	Wellsville, Kansas
A.B., Baker University, 1936.	
Greenwald, Arthur Allen	Huntington, N. Y.
A.B., Elon College, 1938.	
Hambrick, Jackson Reid	Spartanburg, S. C.
A.B., Wofford College, 1938.	
Hoffman, Charles Robert	Easton, Pa.
A.B., Duke University, 1938.	
Horack, Benjamin Shambaugh	Durham, N. C.
Duke University, 1935-38.	
Kaufman, Howell Boucher	Timonium, Md.
B.S., Johns Hopkins University, 1938.	
Kerr, Ben Ransom	Murfreesboro, Tenn.
Middle Tennessee State Teachers College, 1935-36;	Duke University, 1936-38.
Kimbrell, William Clarence	Charlotte, N. C.
B.A., Washington and Lee University, 1932.	
Leavenworth, Robert Wing	New Haven, Conn.
A.B., Duke University, 1938.	
Lenox, Walter Stanley	Ridgefield Park, N. J.
A.B., Duke University, 1938.	
Lipscomb, Woodrow Pershing	Hinton, W. Va.
A.B., Duke University, 1938.	
Little, James Crawford	Raleigh, N. C.
A.B., Duke University, 1938.	
McCormack, Edward Joseph	Irvington, N. J.
A.B., University of Newark, 1935; B.S., Rutgers University, 1937.	
Mack, Edwin Van Tuyl	Rutherfordton, N. C.
A.B., Duke University, 1938.	
Malone, William Frank	Allen, Md.
A.B., Western Maryland College, 1938.	

Marshall, Archibald George	Branford, Conn.
Duke University, 1935-38.	
Mattocks, James Richardson	High Point, N. C.
A.B., High Point College, 1938.	
Mims, Frank Meyer	Mountainair, N. M.
B.A., The University of New Mexico, 1938.	
Moore, Hervey Studdiford, Jr.	Sea Girt, N. J.
Duke University, 1935-38.	
Moran, John William	North Platte, Neb.
A.B., Lenoir-Rhyne College, 1938.	
Phelps, Calhoun William James	Princeton, Ill.
A.B., University of Illinois, 1938.	
Rebman, Andrew Frederick, III	Courtland, Ala.
A.B., Duke University, 1938.	
Sawyer, Thomas B.	Greensboro, N. C.
A.B., Duke University, 1938.	
Sink, Henry Harrison	Greensboro, N. C.
Duke University, 1935-38.	
Skarda, Lynell Griffith	Clovis, N. M.
B.S., University of California, 1937.	
Smith, Louis Van	High Point, N. C.
A.B., High Point College, 1938.	
Smith, Numa Lamar, Jr.	High Point, N. C.
B.A., Furman University, 1938.	
Stack, Warren Carlisle	Monroe, N. C.
Duke University, 1934-38.	
Tinsley, James Jones	Spartanburg, S. C.
A.B., Wofford College, 1938.	
Vitiello, Joseph Thomas	New Canaan, Conn.
A.B., University of North Carolina, 1938.	
Watson, William Harry, Jr.	Keene, N. H.
A.B., Dartmouth College, 1938.	
Wherrett, Norman Lewis	Wilmington, Del.
A.B., Duke University, 1938.	
White, Leland James	Charleston, S. C.
B.S., College of Charleston, 1938.	
Williams, Berry Collins	Fayetteville, Tenn.
A.B., Duke University, 1938.	
Williams, Bill Justin	Fayetteville, Tenn.
A.B., Duke University, 1938.	

## SECOND-YEAR CLASS

Adams, Margaret Louise	Esterly, Pa.
A.B., Duke University, 1938.	
Arnold, Herman Ross, Jr.	Athens, Tenn.
B.A., Furman University, 1937.	
Beattie, Frank John	New London, Ohio
A.B., Oberlin College, 1931.	
Cleaveland, Fred Neill	Orange, N. J.
A.B., Duke University, 1937.	
Daniels, George Neil	Elkins, W. Va.
B.S., Davis and Elkins College, 1932.	
Foster, Elliott Orman, Jr.	Millbury, Mass.
A.B., Bates College, 1937.	
Garber, Murray Roger	Bradford, Pa.
A.B., Duke University, 1938.	
Gracey, Hugh Catron	Franklin, Tenn.
B.S., Davidson College, 1937.	
Harris, Roger Kennedy	Newport, Ark.
A.B., Duke University, 1937.	
Hassel, Merrill Lynnwood	Bart, Pa.
A.B., Duke University, 1938.	

- Hayes, Johnson Jay, Jr.  
B.A., Wake Forest College, 1937.
- Hendrickson, Burnell Howe  
A.B., University of South Dakota, 1938.
- Josephs, Alex Rustin  
Centre College, 1934-35; Duke University, 1935-37.
- Keene, Spotswood Hughes  
A.B., Randolph-Macon College, 1937.
- Klein, Joseph  
Northwestern University, first semester, 1933-34; Northwestern University, 1935-37.
- Koop, Charles Thomas  
A.B., Duke University, 1938.
- Laufer, Joseph  
Karls Gymnasium, 1925-27; University of Berlin, 1927-28; University of Heidelberg, 1928-29; University of Tübingen, 1929-31.
- McCoy, John Oliver  
A.B., Duke University, 1938.
- Malmquist, Tord Vincent  
A.B., Marshall College, 1937.
- Missal, Harold Milton  
Ph.B., Dickinson College, 1935.
- Moore, John Shelby  
A.B., Duke University, 1937.
- Ongard, Henry Adolph  
B.A., University of Wichita, 1937.
- Pope, Harrell  
A.B., Duke University, 1938.
- Poyner, James Marion  
B.S., North Carolina State College of Agriculture and Engineering, 1935; M.S., 1937.
- Raub, Benjamin Dimmick, Jr.  
A.B., Lafayette College, 1937.
- Robertson, Joseph Roderick  
B.S., Wake Forest College, 1938.
- Rouzer, Elmer Ellsworth  
A.B., Duke University, 1938.
- Stoner, James Byron  
A.B., Stanford University, 1937.
- Shepard, James Schumann  
A.B., Wabash College, 1937.
- Stone, Russell DeLeon  
A.B., Duke University, 1938.
- Tunnell, Robert White  
A.B., Muskingum College, 1937.
- Turner, Charles Fletcher  
A.B., Duke University, 1938.
- Vandenburgh, Edward Clinton, III  
B.S., Iowa State College of Agriculture and Mechanic Arts, 1937.
- Wanless, Julian Thor  
A.B., DePauw University, 1937.
- Weinstein, Maurice Aaron  
A.B., Duke University, 1938.
- Welfare, Bradley Lamar, Jr.  
A.B., Duke University, 1937.
- Greensboro, N. C.
- Viborg, S. D.
- Charlotte, N. C.
- Ashland, Va.
- Chicago, Ill.
- Wright Junior College, 1934-35;
- Islip, N. Y.
- Durham, N. C.
- Glen Jean, W. Va.
- Huntington, W. Va.
- Bristol, Conn.
- Clarksburg, W. Va.
- Wichita, Kan.
- Dunn, N. C.
- Raleigh, N. C.
- Easton, Pa.
- Knightdale, N. C.
- Hagerstown, Md.
- Los Angeles, Calif.
- Columbia City, Ind.
- Wilmington, N. C.
- Georgetown, Del.
- Birmingham, Ala.
- Sioux City, Iowa
- Springfield, Ill.
- Salem, N. J.
- Winston-Salem, N. C.

## THIRD-YEAR CLASS

- Arnold, Hubert Kennard  
A.B., University of Maryland, 1935.
- Betts, Willard Furman, Jr.  
A.B., University of North Carolina, 1936.
- Blackburn, James William, Jr.  
Western Kentucky State Teachers College, 1931-34.
- Hyattsville, Md.
- Raleigh, N. C.
- Bowling Green, Ky.

- Bogue, Robert William  
B.A., University of Wisconsin, 1936.
- Bomar, Fleming Brown  
A.B., Wofford College, 1936.
- Burwell, George Allen  
A.B., Duke University, 1937.
- Carden, Russell Campbell  
A.B., Duke University, 1937.
- Cooley, Edward William  
A.B., Duke University, 1936.
- Deneen, Russell Sanders  
A.B., Duke University, 1937.
- Desvernine, Eugene  
A.B., Duke University, 1937.
- Forsythe, John Samuel  
Geneva College, 1933-36.
- Gibbs, Charles Haskell  
A.B., College of Charleston, 1936.
- Griffith, Erma Ellen  
A.B., Duke University, 1937.
- Hoffman, John Edward  
A.B., Duke University, 1937.
- Knapp, James Edward  
A.B., Duke University, 1937.
- Lowe, James Russell  
A.B., Duke University, 1936.
- Mann, Oliver DeWitt  
A.B., Duke University, 1936.
- Margraf, Gustav Benhart  
A.B., Southeast Missouri State Teachers College, 1936.
- Maxwell, Lylton Ethridge  
A.B., Duke University, 1936.
- Meyerson, Stanley Phillip  
A.B., Duke University, 1937.
- Moose, William Lewis, III  
B.A., Hendrix College, 1936.
- Morrah, Patrick Bradley, Jr.  
A.B., The Citadel, 1936.
- Oakes, John Campbell  
B.S., State Teachers College of Tennessee, 1936.
- Page, Hugh Alexander, Jr.  
Duke University, 1932-36.
- Powell, Rufus Heflin, III  
A.B., Duke University, 1936.
- Reid, Edwin Kitchen  
A.B., Syracuse University, 1936.
- Renner, Charles Victor  
A.B., Marietta College, 1936.
- Sanders, Richard Tatum  
A.B., Baylor University, 1935.
- Tomlinson, Benson Cahoon  
Southeast Missouri State Teachers College, 1933-36.
- Turlington, David James, Jr.  
Duke University, 1933-36.
- Womble, William Fletcher  
A.B., Duke University, 1937.
- Parker, S. D.
- Spartanburg, S. C.
- Warrenton, N. C.
- Chattanooga, Tenn.
- Wheeling, W. Va.
- Bakersville, N. C.
- Buen Retiro, Mariano,  
Havana, Cuba
- Rocky Mount, Va.
- Charleston, S. C.
- Lebanon, Va.
- Fort Wayne, Ind.
- Irasburg, Vt.
- Elon College, N. C.
- Whitakers, N. C.
- Cape Girardeau, Mo.  
1936.
- Pink Hill, N. C.
- Charleston, S. C.
- Little Rock, Ark.
- Greenville, S. C.
- Johnson City, Tenn.
- Clayton, N. C.
- Durham, N. C.
- Albany, Ga.
- Parkersburg, W. Va.
- Sherman, Tex.
- Fornfelt, Mo.
- Clinton, N. C.
- Winston-Salem, N. C.

## INSTITUTIONS REPRESENTED

Baker University  
Bates College  
Baylor University

Butler University  
Citadel, The  
College of Charleston



Dartmouth College	Randolph-Macon College
Davidson College	Rutgers University
Davis-Elkins College	St. John's College
DePauw University	Stanford University
Dickinson College	State Teachers College of Tennessee
Duke University	Southeast Missouri State Teachers College
Elon College	University of California
Furman University	University of Illinois
Geneva College	University of New Mexico
Hendrix College	University of North Carolina
High Point College	University of South Dakota
Iowa State College	University of Syracuse
Johns Hopkins University	University of Tübingen
Kansas State Teachers College	University of Wichita
Kent State University	University of Wisconsin
Lafayette College	Wabash College
Lenoir-Rhyne College	Wake Forest College
Louisiana State University	Washington and Lee University
Marietta College	Western Kentucky State Teachers College
Marshall College	Western Maryland College
Muskingum College	Wofford College
North Carolina State College	
Northwestern University	
Oberlin College	

### STATES AND FOREIGN COUNTRIES REPRESENTED

Alabama, Arkansas, California, Connecticut, Cuba, Delaware, District of Columbia, Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Maryland, Massachusetts, Mississippi, Missouri, Nebraska, New Hampshire, New Jersey, New Mexico, New York, North Carolina, Ohio, Oklahoma, Pennsylvania, South Carolina, South Dakota, Tennessee, Texas, Vermont, Virginia, West Virginia. Total, 33.

### GENERAL SUMMARY

First-Year Class .....	47
Second-Year Class .....	36
Third-Year Class .....	31
Total Enrollment .....	114
Total Number of Institutions Represented .....	51
Total Number of States and Foreign Countries Represented .....	33

### DEGREES AWARDED IN JUNE, 1938

#### BACHELOR OF LAWS

Bulleit, Edward Banister A.B., Gettysburg College, 1935.	Gettysburg, Pa.
Butterfield, Thomas Edward, Jr. A.B., Lehigh University, 1935.	Bethlehem, Pa.
Cady, Frederick Clayton A.B., Duke University, 1936.	Syracuse, N. Y.
Cann, Richard McDonald A.B., Duke University, 1936.	Greensboro, N. C.
Cleveland, Theron Clair, Jr. A.B., Duke University, 1935.	Greenville, S. C.

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|--|--------------------|
| Hill, Harry Weller   | Williamson, W. Va. |
| University of Alabama, 1932-33; Marshall College, 1933-35. |                    |
| Lewis, William Allen                                       | Durham, N. C.      |
| A.B., Duke University, 1936.                               |                    |
| Littell, Duane Oliver                                      | Beaver Falls, Pa.  |
| B.A., Geneva College, 1934.                                |                    |
| Lundgren, Carl Raymond                                     | New Haven, Conn.   |
| A.B., Duke University, 1933.                               |                    |
| Marks, Morris Steinberg                                    | Augusta, Ga.       |
| A.B., Duke University, 1935.                               |                    |
| Matthews, John Frederick                                   | Louisburg, N. C.   |
| Wake Forest College, 1930-33.                              |                    |
| Newsom, James Long   | Durham, N. C.      |
| A.B., Duke University, 1935.                               |                    |
| Sapp, James Everett, Jr.                                   | Albany, Ga.        |
| A.B., Duke University, 1935.                               |                    |
| Sears, Howard Jones  | Chattanooga, Tenn. |
| A.B., University of the South, 1935.                       |                    |
| Spencer, Harold Winston                                    | Willow Grove, Pa.  |
| A.B., Lafayette College, 1935.                             |                    |
| Stuart, Carmon Jackson                                     | Jefferson, N. C.   |
| B.S., Appalachian State Teachers College, 1935.            |                    |
| Warren, Charles Ransome, Jr.                               | Chatham, Va.       |
| A.B., Duke University, 1936.                               |                    |
| Wyman, Paul B.   | Kalamazoo, Mich.   |
| Kalamazoo College, 1932-35.                                |                    |
| Young, Charles Holt  | Raleigh, N. C.     |
| A.B., Duke University, 1935.                               |                    |











VOLUME 11

April, 1939

NUMBER 4

# BULLETIN OF DUKE UNIVERSITY

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## *Undergraduate Instruction*

(Trinity College and the Woman's College)



1938-1939

ANNOUNCEMENTS FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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FOR GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF RELIGION, apply to *The Registrar of the School of Religion*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University Durham, N. C.

FOR BULLETIN OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

FOR BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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Published by Duke University monthly except in September and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY



UNDERGRADUATE INSTRUCTION  
(Trinity College and the Woman's College)

1938-1939

ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA  
1939



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## UNIVERSITY CALENDAR

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1939

- June 12 Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 12 Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4 Tuesday, Independence Day: a holiday.
- July 21-22 Friday, Saturday—Final examinations for Summer School, first term.
- July 24 Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 24 Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 1-2 Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 14 Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 14 Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 19 Tuesday—Freshman instruction begins.
- Sept. 19 Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 20 Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 21 Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 21-23 Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 30 Thursday—Thanksgiving Day: a holiday.
- Dec. 11 Monday—Duke University Day.
- Dec. 20 Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3 Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17 Wednesday—Mid-year examinations begin.
- Jan. 31 Wednesday—Last day for matriculation for second semester.
- Feb. 1 Thursday—Second semester begins.
- March 23 Saturday, 1:00 P.M.—Spring vacation begins.
- April 1 Monday, 8:00 A.M.—Instruction is resumed.

- April 15 Monday—Last day for submitting orations for Wiley Gray Contest.
- April 30 Tuesday—Last day for selection of courses for ensuing year.
- May 11 Saturday—Earliest date for beginning of Honors examination.
- May 17 Friday—Final examinations begin.
- June 1 Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2 Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3 Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

# 1939

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JANUARY	APRIL	JULY	OCTOBER
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# GOVERNING BODIES AND OFFICERS

## EXECUTIVE COMMITTEE OF THE UNIVERSITY

(Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.)

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
W. P. FEW.....	1910.....	Durham,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1929.....	Gastonia,	N. C.
W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS, Recording Secretary.....	1923.....	Durham,	N. C.

## UNIVERSITY TRUSTEES

Term Expires December 31, 1939

M. E. NEWSOM.....	1917.....	Durham,	N. C.
E. S. BOWLING.....	1939.....	New York,	N. Y.
J. A. THOMAS.....	1936.....	White Plains,	N. Y.
W. W. PEELE.....	1921.....	Richmond,	Va.
W. R. PERKINS.....	1924.....	New York,	N. Y.
D. C. ROPER.....	1929.....	Washington,	D. C.
F. M. WEAVER.....	1909.....	Asheville,	N. C.
B. S. WOMBLE.....	1915.....	Winston-Salem	N. C.

### FROM THE ALUMNI

H. R. DWIRE, Ass't Rec. Secretary.....	1931.....	Durham,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
F. M. SIMMONS.....	1892.....	New Bern,	N. C.
W. A. STANBURY.....	1933.....	Asheville,	N. C.

Term Expires December 31, 1941

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
T. F. MARR, Vice-Chairman.....	1900.....	Brevard,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
J. A. LONG.....	1915.....	Roxboro,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
EARLE W. WEBB.....	1933.....	New York,	N. Y.

### FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPARK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

Term Expires December 31, 1943

	Year of Election		
R. L. FLOWERS, Recording Secretary.....	1927.....	Durham,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
J. H. BARNHARDT.....	1918.....	Raleigh,	N. C.
JAMES A. BELL.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Gastonia,	N. C.
THOMAS M. GRANT.....	1933.....	Greenville,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.

## FROM THE ALUMNI

W. W. FLOWERS.....	1925.....	New York,	N. Y.
J. B. HURLEY.....	1896.....	Goldsboro,	N. C.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

## ENDOWMENT TRUSTEES

MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary....	1924.....	Charlotte,	N. C.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
A. H. SANDS, JR., Secretary.....	1924.....	New York,	N. Y.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. SMITH, CHERRY, BARNHARDT.*Business Administration of the University:* HANES, LONG, ELIAS, BOWLING.*Colleges:* ALDERMAN, ROPER, HORNE.*School of Forestry:* DWIRE, W. W. FLOWERS, NEWSOM.*Graduate School:* WEBB, TURRENTINE, SIMMONS, R. L. FLOWERS.*Law School:* WILLIS SMITH, WOMBLE, BELL, FRIZZELLE.*Library:* STANBURY, HANES, LAMBETH, WEAVER.*Medical School and Hospital:* THOMAS, MAYER, PROCTOR.*Physical Education and Intercollegiate Athletics:* SEPARK, J. R. SMITH, PROCTOR.*School of Religion:* PEELE, GRANT, HURLEY, MARR.



# OFFICERS OF ADMINISTRATION

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## GENERAL ADMINISTRATION

FEW, WILLIAM PRESTON, A.B. A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Vice-President in the Business Division, Secretary and Treasurer</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
BROWN, FRANK CLYDE, A.B., A.M., Ph.D. <i>Comptroller</i>	410 Buchanan Road

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## BUSINESS ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>Secretary and Treasurer</i>	West Campus
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Assistant Treasurer</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B. <i>Assistant Secretary</i>	813 Vickers Avenue
BOY, CARL A. <i>Superintendent of Maintenance</i>	2224 Erwin Road
DOOLEY, NELL, R.N. <i>Dietitian, the Union</i>	Faculty Apartments, East Campus
GIFT, JOHN C. <i>Superintendent of Maintenance</i>	811 Fifth Street
HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A. <i>Auditor</i>	216 Forest Wood Drive, Forest Hills
HOOKE, MARY R., MRS. <i>Supervisor of Dormitories</i>	Powe Apartments, Buchanan Boulevard
MARTIN, LILLY SLADE, MRS. <i>Supervisor of Dormitories</i>	1506 Club Boulevard
MOORE, JOHN MEREDITH, A.B. <i>Manager, the Duke University Stores</i>	2615 Chapel Hill Boulevard
ROBERSON, HELEN, MRS. <i>Dietitian, the Union</i>	East Campus
SAWYER, OTIS, A.B. <i>Purchasing Agent, Duke University</i>	2010 Club Boulevard
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THOMPSON, JAMES EDWARD <i>Manager, the Duke University Dining Halls</i>	504 East Forest Hills Boulevard

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- 

## PUBLIC RELATIONS AND ALUMNI AFFAIRS

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- BALDWIN, ALICE MARY, A.B., A.M., Ph. D.  
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*Secretary of the Committee on Admissions of the Woman's College*

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*Recorder, Woman's College* 114 Faculty Apartments, East Campus
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*Dean of the School of Religion* 811 Vickers Avenue
- GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion* West Campus
- DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D.  
*Dean of the School of Medicine* Hope Valley
- STOCKSDALE, HELEN I.  
*Recorder, School of Medicine* Beverly Apartments
- \*BAKER, BESSIE, R.N., B.S.  
*Dean of the School of Nursing* Nurses Home
- KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D.  
*Dean of the School of Forestry* 908 West Markham Avenue
- WILSON, MARY GRACE, A.B.  
*Dean of Residence, Woman's College,*  
*Head of Brown House* Brown House
- HUCKABEE, ELLEN HARRIS, A.B., A.M.  
*Assistant Dean of Residence, Woman's College,*  
*Head of Pegram House* Pegram House

## INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

- ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D.  
*Associate Professor of Psychology* Cornwallis Road
- ADDOMS, RUTH MARGERV, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Botany* 1003 Lamond Avenue
- ALDRIDGE, FRED SOULE, (1922) A.B., A.M.  
*Assistant Professor of Mathematics* East Campus
- ALLEN, DON CAMERON, (1938) A.B., Ph.D.  
*Assistant Professor of English* 1207 Alabama Avenue
- ALTVATER, F. VERNON, (1930) A.B., A.M.  
*Associate in Hospital Administration* Route 1, Hillsboro, N. C.
- ALYEA, EDWIN PASCAL, (1930) S.B., M.D.  
*Associate Professor of Surgery in Charge of Urology* Hope Valley

\* Absent on leave, 1938—.

- ANDERSON, CHARLES ROBERTS, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of English* 1007 Lakewood Avenue
- ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.  
*Instructor in Botany* 2016 Myrtle Drive
- ANDERSON, WILLIAM BANKS, (1930) A.B., M.D.  
*Associate Professor of Surgery in Charge of Ophthalmology*  
 10 Beverly Apartments
- ARENA, JAY MORRIS, (1933) B.S., M.D.  
*Assistant Professor of Pediatrics* 1104 Virginia Avenue
- ATWOOD, THEODORE W., (1934) A.B., D.M.D.  
*Associate in Dentistry* Allenton Apartments
- AVILÉS, LUIS, JR., (1935) A.B., A.M., Ph.D.  
*Instructor in Romance Languages* 1114 Fifth Street
- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.A.  
*Assistant Professor of Physical Education* 2602 Englewood Avenue
- BAITY, HERMAN GLENN, (1938) Sc.D.  
*Lecturer in Public Health* Chapel Hill, N. C.
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*Dean of the School of Nursing and*  
*Professor of Nursing Education* Nurses Home
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- BAKER, ROGER DENIO, (1930) A.B., M.D.  
*Assistant Professor of Pathology* 1111 Watts Street
- BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D.  
*Professor of History* East Campus
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.  
*Professor of English* 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D.  
*Instructor in Anatomy* Duke Hospital
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.  
*Professor of Forest Entomology* Duke University
- BEARD, JOSEPH W., (1937) B.S., M.D.  
*Assistant Professor of Surgery in Charge of Experimental Surgery* 144 Pinecrest Road
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D.  
*Associate Professor of Physiology and Pharmacology*  
 Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Associate Professor of Geology* 1003 N. Gregson Street
- BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.  
*Instructor in Economics* 100 Vineyard Street
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
*Associate Professor of Chemistry* 131 Pinecrest Road
- BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.  
*Professor of Civil Engineering* 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Assistant Professor of Accounting* 135 Pinecrest Road

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\* Absent on leave, 1938—.

- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A.  
*Associate Professor of English* 715 Anderson Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demarius Street
- BOAS, RALPH PHILIP, JR., (1939) A.B., Ph.D.  
*Instructor in Mathematics* Duke University
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.  
*Instructor in Physics* 905 Sixth Street
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Instructor in Zoology* 12 Bickett Apartments, Gregson Street
- BRADFORD, WILLIAM ZIEGLER, (1934) B.S., M.D.  
*Assistant Professor of Obstetrics and Gynecology and  
 Director, Outside Obstetric Service* Charlotte, N. C.
- BRADSHER, CHARLES KILGO, (1939) A.B., M.A., Ph.D.  
*Instructor in Chemistry* 1011 Lamond Avenue
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 111 Briarcliff Road
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D.  
*Professor of New Testament Language and Literature*  
 Chelsea Circle, Hope Valley
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.  
*Assistant Professor of Romance Languages* 1325 Arnette Avenue
- BROADHEAD, EDWARD HALL, (1933) A.B., A.M.  
*Instructor in Music* 1001 Lamond Avenue
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Instructor in Chemistry* 205 Jones Street
- BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.  
*Professor of English* 410 Buchanan Road
- BROWN, HAROLD WILLIAM, (1938) A.B., M.S., Sc.D., Dr.P.H., M.D.  
*Professor of Preventive Medicine and Public Health* Chapel Hill, N. C.
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D.  
*Professor of Educational Psychology* Hope Valley
- BRUINSMA, HENRY A., (1938) B.M., M.M.  
*Instructor in Music* 1021 West Trinity Avenue
- BRYSON, THADDEUS DILLARD, (1928) LL.D.  
*Professor of Law* Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) M.D.  
*Associate in Dermatology and Syphilology* 907 Second Street
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of History of Religion and Missions*  
 Chelsea Circle, Hope Valley
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Associate Professor of Mathematics* 1410 Markham Avenue
- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Professor of Education* 926 Monmouth Avenue



- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.  
*Professor of History* University Apartments
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* Myrtle Drive, West Campus
- CATHCART, ARTHUR MARTIN, (1938) A.B.  
*Visiting Professor of Law* University Apartments
- CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.  
*Professor of Law* 414 Carolina Circle
- CHAPMAN, ROBERT G., (1936) B.S. in M.E., M.M.E.  
*Instructor in Mechanical Engineering* 1001 Watts Street
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Assistant Professor of New Testament Language and Literature*  
 11 Bickett Apartments, Gregson Street
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Associate Professor of History* 1104 Watts Street
- COILE, THEODORE STANLEY, (1935) B.S.F., M.F.  
*Assistant Professor of Forest Soils* Duke University
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 1021 Minerva Avenue
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Associate in Bacteriology and Mycology* Tuscaloosa Forest
- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.  
*Assistant Professor of Physics* 1607 Hermitage Court
- COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., Ph.D., M.D.  
*Associate in Biochemistry* 2414 Club Boulevard
- \*COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- CRAIG, ROBERT LAWRENCE, (1938) B.A., M.D.  
*Instructor in Neuropsychiatry* Duke Hospital
- CRIVEN, ERLE BULLA, JR., (1937) A.B., M.D.  
*Instructor in Medicine* Winston-Salem, N. C.
- CRISPELL, RAYMOND, (1933) A.B., M.D.  
*Associate Professor of Neuropsychiatry* Myrtle Drive, West Campus
- CRUM, MASON, (1930) A.B., Ph.D.  
*Assistant Professor of Biblical Literature* 1308 Markham Avenue
- CULBRETH, SARAH ELIZABETH, (1938) A.B., A.M., Ph.D.  
*Instructor in Zoology* 208 Watts Street
- CUNNINGHAM, BERT, (1916) B.S., M.S., Ph.D.  
*Professor of Biology* 1200 Markham Avenue
- DANIEL, WALTER EUGENE, (1935) B.A., M.D.  
*Instructor in Urology* Duke Hospital
- DANN, WILLIAM JOHN, (1934) B.S., Ph.D.  
*Assistant Professor of Physiology and Nutrition* 1016 Sycamore Street
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* 2015 Wa Wa Avenue

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\* Absent on leave, second semester, 1939-1940.



- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Professor of Pediatrics* Hope Valley
- DELAPLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.  
*Instructor in Economics* Legion Avenue, Tuscaloosa Forest
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 214 Swift Avenue
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Associate in Medicine, Physiology and Pharmacology* Hope Valley
- DOW, MARIE, MME., (1934) L. ès L., M.A.  
*Instructor (part-time) in French* 205 Forest Wood Drive
- DOW, NEAL, (1934) A.B., A.M.  
*Instructor in Romance Languages* 205 Forest Wood Drive
- \*DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Instructor in Mathematics* Route 1, Box 106, Durham
- DUBS, HOMER HASENPFLUG, (1937) A.B., A.M., B.D., Ph.D.  
*Acting Professor of Philosophy* 2415 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1929) A.B., M.D.  
*Associate Professor of Surgery in Charge of Otolaryngology*  
 804 Anderson Street
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Assistant Professor of Education* Guess Road
- EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.  
*Professor of Physics* 406 Buchanan Road
- EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 126 Pinecrest Road
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1404 Arnette Avenue
- ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.  
*Professor of Sociology* Pinecrest Road
- ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.  
*Instructor in Pathology* 2219 Club Boulevard
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Associate in Anatomy* 2511 University Drive
- FARMER, WILLIAM DEMPSEY, (1935) A.B., M.D.  
*Instructor in Otolaryngology and Ophthalmology* Duke Hospital
- FERGUSON, GEORGE BURTON, (1937) M.S. (Med.), M.D.  
*Instructor in Bronchoscopy* Beverly Apartments
- FINKELSTEIN, HAROLD, (1931) B.S., M.D.  
*Associate in Surgery* Erwin Apartments
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.  
*Instructor in English* 6 Powe Apartments, 603 Watts Street
- FLETCHER, RICHARD VAN, (1933) B.S., M.D.  
*Instructor in Surgery* Duke Hospital
- FORBUS, WILEY DAVIS, (1929) A.B., M.D.  
*Professor of Pathology* Hope Valley

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\* Absent on leave, 1939-1940.

- FULLER, LON, (1931) A.B., J.D.  
*Professor of Law* Hope Valley
- GARBER, PAUL NEFF, (1924), A.B., A.M., Ph.D.  
*Professor of Church History* Myrtle Drive, West Campus
- GARDINER, ANN HENSHAW, (1930) R.N., B.S., M.S.  
*Assistant Professor of Nursing Education* Nurses Home
- GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.  
*Associate Professor of Surgery* Hope Valley
- GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.  
*Assistant Professor of Latin* 1030 West Trinity Avenue
- GERGEN, JOHN JAY, (1936) A.B., M.A., Ph.D.  
*Associate Professor of Mathematics* 1012 West Trinity Avenue
- GIBSON, PERRY, (1937) A.B., B.S., M.S.  
*Instructor in Medical Social Service* Erwin Apartments
- GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.  
*Instructor in Political Science* 2014 Wilson Street
- \*GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.  
*Professor of English* 516 Carolina Circle
- GILBERT, KATHERINE EVERETT, (1930) A.B., A.M., Ph.D.  
*Professor of Philosophy* 516 Carolina Circle
- GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D.  
*Professor of Political Economy and Social Science* 710 Buchanan Road
- GOTAAS, HAROLD BENEDICT, (1938) B.S., M.S., S.M.  
*Instructor in Public Health* Chapel Hill, N. C.
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Professor of English* 1001 Lamond Avenue
- GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.  
*Associate in Neurology* Cornwallis Road
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Zoology* 1411 Arcadia Street
- GREENE, WALTER KIRKLAND, (1928) A.B., A.M., Ph.D.  
*Professor of English* Myrtle Drive, West Campus
- GREENWOOD, JOSEPH, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Nation Avenue
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry* Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Director of Physical Education, Woman's College* 205 Jones Street
- GROVES, ERNEST RUTHERFORD, (1938) A.B., B.D., Research Professor of Sociology at the University of North Carolina  
*Lecturer on Sociology, second half-year*
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Zoology* 911 W. Markham Avenue
- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Assistant Professor of Fine Arts* 211 Faculty Apartments
- HALL, SNOWDEN COWMAN, (1937) A.B., M.D.  
*Instructor in Medicine* Danville, Va.

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\* Absent on leave, 1939-1940.

- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering* 11 Beverly Apartments
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 814 Forest Hill Road
- HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.  
*Professor of Economics* 1015 Demarius Street
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.  
*Instructor in History* 410 Watts Street
- HAMLIN, GLADYS EVA, (1938) A.B., M.A.  
*Instructor in Fine Arts* 1021 Markham Avenue
- HANES, FREDERIC MOIR, (1931) A.B., A.M., M.D.  
*Florence McAlister Professor of Medicine* 2127 Myrtle Drive, West Campus
- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.  
*Associate Professor of Medicine* 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HARRIS, JEROME SYLVAN, (1936) A.B., M.D.  
*Associate in Pediatrics and Biochemistry* 1018 Demarius Street
- HART, DERYL, (1929) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* University Apartments
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M.  
*Instructor in English* No. 8, Aycock Apartments, Dacian Avenue
- HASBROUCK, FRANCIS MAHLON, (1935) A.B., Ph.D.  
*Assistant Professor of Romance Languages* 1005 Homer Street
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Assistant Professor of Chemistry* 1020 Rose Hill Avenue
- HAVENS, RALPH MURRAY, (1938) A.B., M.B.A.  
*Instructor in Accounting* 1809 Chapel Hill Road
- HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.  
*Instructor in Physics* 132 Pinecrest Road
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.  
*Associate in Medicine* Duke Hospital
- HERRING, HERBERT JAMES, (1924) A.B., A.M.  
*Assistant Professor in Speech* Myrtle Drive, West Campus
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Associate Professor of Anatomy* Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Preaching and the Psychology of Religion* 823 Buchanan Rd.
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Instructor in Chemistry* Dixon Road

- HITCH, JOSEPH M., (1938) A.B., M.S., M.D.  
*Instructor in Dermatology and Syphilology* Chapel Hill, N. C.
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Instructor in Chemistry* 10 Powe Apartments, Buchanan Boulevard
- HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.  
*Associate in Anatomy* 1006 Urban Avenue
- HOLSCHER, EDWARD CHARLES, (1936) A.B., B.S., M.D.  
*Instructor in Orthopaedics* Duke Hospital
- HOLTON, HOLLAND, (1912) A.B., J.D.  
*Professor of the History and Science of Education* 809 Watts Street
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 1702 Duke University Road
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor of Law* 2021 Myrtle Drive, West Campus
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of English* Pinecrest Road
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.  
*Professor of English* Legion Avenue
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.  
*Instructor in Zoology* 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOHNSON, FRANK LOUIS, (1938) B.A., M.A., Ph.D.  
*Instructor in English* University Apartments
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Instructor in Zoology* Vineyard Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.  
*Assistant Professor of Medicine and Physiology* University Apartments
- JONES, ROBERT RANDOLPH, JR., (1930) A.B., M.D.  
*Assistant Professor of Surgery* 1105 Watts Street
- JONES, THOMAS T., (1937) A.B., M.D.  
*Instructor in Medicine* Duke Hospital
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English* Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pinecrest Road
- JOYNER, GEORGE W., (1932) B.S., M.D.  
*Instructor in Surgery* Asheboro, N. C.
- KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.  
*Instructor in Economics* Vineyard Street
- KEMP, MALCOLM D., (1937) M.D.  
*Instructor in Psychiatry* Pine Bluff, N. C.
- KEMPNER, WALTER, (1934) M.D.  
*Associate in Medicine* Washington Duke Hotel
- KOHN, HENRY IRVING, (1937) A.B., Ph.D.  
*Instructor in Physiology and Pharmacology* 208 Buchanan Boulevard
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture* 908 West Markham Avenue

- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Associate Professor of Botany* 922 Urban Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LONDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 1001 West Trinity Avenue
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.  
*Professor of Law* 2016 Wilson Street
- LEIBY, GEORGE M., (1938) M.P.H., Dr.P.H., M.D.  
*Instructor in Syphilology* Chapel Hill, N. C.
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.  
*Assistant Professor of Economic Geography* 123 Pinecrest Road
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Philosophy* 107 Pinecrest Road
- LESTER, DAVID WASHINGTON, (1939) M.D.  
*Instructor in Neuropsychiatry* Duke Hospital
- LEWIS, LEROY, (1935) A.B., A.M.  
*Instructor in Speech* 640 Club Boulevard
- LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.  
*Assistant Professor of Political Science* 1306 B Street
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.  
*Instructor in Pediatrics* 502 Morehead Avenue
- LONDON, FRITZ, (1938) Ph.D.  
*Professor of Theoretical Chemistry* Duke University
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- LUNDEBERG, OLAV, (1931) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* 803 Second Street
- MABRY, WILLIAM ALEXANDER, (1930) A.B., A.M., Ph.D.  
*Instructor in History* 703 Club Boulevard
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Assistant Professor of Pediatrics* 1007 Homer Street
- McCAIN, PAUL PRESSLY, (1933) A.B., M.D.  
*Assistant Professor of Medicine* Southern Pines, N. C.
- MACCARDLE, ROSS CLAYTON, (1937) B.S., Ph.D.  
*Instructor in Anatomy* 814 Forest Hills Boulevard
- \*McCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.  
*Instructor in History* 1208 Arnette Avenue
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demarius Street
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law* East Campus

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\* Absent on leave, 1939-40.



- McDONALD, ALEXANDER DONALD, (1936) A.B., M.F.A.  
*Assistant Professor of Fine Arts* University Apartments
- \*McDOUGALL, WILLIAM, (1927) B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology* 303 Faculty Apartments, East Campus
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Instructor in Philosophy* Hillsboro, N. C.
- \*\*MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of History* Myrtle Drive, West Campus
- MANNING, ISAAC HALL, JR., (1937) A.B., M.D.  
*Instructor in Medicine* Duke Hospital
- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Associate Professor of Bacteriology and Associate in Medicine*  
 2609 Chapel Hill Boulevard
- MARTIN, ELSIE WILSON, MRS., (1930) A.B., M.S.  
*Professor of Dietetics* 206 Faculty Apartments, East Campus
- MARX, WALTER, (1937) M.A., Ph.D.  
*Research Associate in Surgery and Biochemistry* 905 Sixth Street
- MAUGHAN, WILLIAM, (1931) B.S., M.F.  
*Associate Professor of Forest Management* 2409 Club Boulevard
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of German* 142 Pinecrest Road
- \*\*\*MAYFIELD, MARIE MARCIA, (1935) B.A., Brevet d'Art de la Sorbonne  
*Instructor in Fine Arts* 406 Buchanan Boulevard
- MEIER, OTTO, JR., (1934) B.S. in E.E., E.E.  
*Assistant Professor of Electrical Engineering* 2200 University Drive
- MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.  
*Assistant Professor of Mathematics* 1028 Gloria Avenue
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.  
*Associate Professor of English* East Campus
- MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 1210 Vickers Avenue
- MORGAN, JASPER EUGENE, (1936) B.S., A.M., Ph.D.  
*Instructor in Roentgenology and Physiology* 622 Swift Avenue
- MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.  
*Assistant Professor of Physics* 132 Pinecrest Road
- MULLER, MARY HOEN, (1930) R.N., Anes.  
*Instructor in Anesthesia* Duke Hospital
- MUNYAN, MERRILL CALVIN, (1934) A.B.  
*Instructor in History* East Campus
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature* 141 Pinecrest Road
- †NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley

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\* Deceased, November 28, 1938.

\*\* Absent on leave, 1938-1939.

\*\*\* Resigned, August 31, 1938.

† Absent on leave, 1939-1940.



NEURATH, HANS, (1938) Ph.D. <i>Research Associate in Biochemistry</i>	Manchester Apartments
NICHOLSON, WILLIAM McNEAL, (1935) A.B., M.D. <i>Associate in Medicine and Biochemistry</i>	1502 Florida Avenue
NIELSEN, WALTER McKINLEY, (1925) B.S. in E.E., Ph.D. <i>Professor of Physics</i>	139 Pinecrest Road
NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D. <i>Professor of Physics</i>	904 Buchanan Road
NORTON, J. W. ROY, (1938) A.B., M.P.H., M.D. <i>Lecturer in Preventive Medicine and Public Health</i>	Chapel Hill, N. C.
OLIVER, HENRY MADISON, (1937) A.B., A.M. <i>Instructor in Economics</i>	1114 Eighth Street
OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D. <i>Assistant Professor of Botany</i>	2528 University Drive, Rockwood
ORGAIN, EDWARD STEWART, (1934) M.D. <i>Associate in Medicine</i>	116 Faculty Apartments
ORMOND, JESSE MARVIN, (1923) A.B., B.D. <i>Professor of Practical Theology</i>	301 Watts Street
OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D. <i>Instructor in English Bible and Historical Theology</i>	1003 Lamond Avenue
PARSONS, PHILIP BROWER, (1936) B.S., M.D. <i>Instructor in Radiology</i>	Duke Hospital
PARKER, HAROLD TALBOT, (1939) A.B., Ph.D. <i>Instructor in History</i>	Duke University
PATTERSON, KARL BACHMAN, (1920) A.B., A.M. <i>Assistant Professor of Mathematics</i>	1024 Monmouth Avenue
*PATTON, LEWIS, (1926) A.B., Ph.D. <i>Associate Professor of English</i>	1511 W. Pettigrew Street
PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D. <i>Professor of Zoology</i>	Chelsea Circle, Hope Valley
PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D. <i>Professor of Greek</i>	406 Buchanan Road
PERLZWEIG, WILLIAM ALEXANDER, (1929) B.S., A.M., Ph.D. <i>Professor of Biochemistry</i>	Hope Valley
PERRY, HAROLD SANFORD, (1932) A.B., Ph.D. <i>Assistant Professor of Botany</i>	1222 Sixth Street
PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D. <i>Associate in Medicine and Dermatology</i>	723 Anderson Street
PETRY, RAY C., (1937) A.B., A.M., Ph.D. <i>Assistant Professor of Church History</i>	Pinecrest Road
PIGAGE, LEO CHARLES, (1938) B.S., M.M.E. <i>Instructor in Mechanical Engineering</i>	1007 Markham Avenue
PLUMMER, DAVID EDWIN, (1938) M.D. <i>Instructor in Syphilology</i>	Duke Hospital
POSTON, MARY ALVERTA, (1930) <i>Instructor in Bacteriology</i>	512 Watts Street

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\* Absent on leave, second semester, 1939-1940.

- POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.  
*Professor of Law* 1015 Dacian Avenue
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.  
*Instructor in English* 103 Faculty Apartments
- PRATT, JOSEPH GAITHER, (1937) A.B., A.M., Ph.D.  
*Instructor in Psychology* Nation Avenue
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus
- QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université de Paris  
*Assistant Professor of History* Woodridge Drive, Rockwood
- QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Romance Languages* Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Instructor in Orthopaedics* Bland Apartments
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* Manchester Apartments
- RANKIN, WATSON SMITH, (1930) M.D.  
*Lecturer in Preventive Medicine and Public Health* Charlotte, N. C.
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RANSON, RUSSELL, (1934) B.S.  
*Instructor in Electrical Engineering* 814 Vickers Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Assistant Professor of Economics* 2030 Englewood Avenue
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Instructor in Romance Languages* 1003 Lamond Avenue
- REAMER, I. THOMAS, (1931) Ph.G.  
*Instructor in Pharmacy* Duke Hospital
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Assistant Professor of Mechanical Engineering* 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Associate Professor of Roentgenology* 1010 Monmouth Avenue
- REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* Duke University
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 908 W. Club Boulevard
- RICHARDSON, WILLIAM P., (1938) B.S., M.P.H., M.D.  
*Instructor in Preventive Medicine and Public Health* Chapel Hill, N. C.
- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* 917 Englewood Avenue
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.  
*Instructor in Urology* Duke Hospital
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D.  
*Professor of Latin* 1008 W. Trinity Avenue
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Instructor in History* 1009 Lakewood Avenue

- ROSBOROUGH, RUSKIN RAYMOND, (1925) A.B., A.M., Ph.D., Docteur en  
philologie classique, Louvain  
*Professor of Latin* 410 Watts Street
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Instructor in Latin* No. 5, Powe Apartments, 603 Watts Street
- ROSENAU, MILTON JOSEPH, (1938) M.D.  
*Lecturer in Preventive Medicine and Public Health* Chapel Hill, N. C.
- ROSS, NORMAN F., (1937) D.D.S.  
*Instructor in Dentistry* 1021 Dacian Avenue
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor of Christian Doctrine* 150 Pinecrest Road
- RUFFIN, JULIAN MEADE, (1930) B.A., M.A., M.D.  
*Associate Professor of Medicine* 816 Anderson Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.  
*Professor of Biblical Interpretation* 811 Vickers Avenue
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D. .  
*Assistant Professor of English* 1315 Vickers Avenue
- SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.  
*Assistant Professor of Law* 1603 Duke University Road
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Assistant Professor of Chemistry* 1604 B Street
- SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Associate Professor of Education* Duke University
- SCHIEBEL, HERMAN MAX, (1933) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- SEITZ, GIFFORD DE ALTON, (1934) B.A., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- \*SHANDS, ALFRED RIVES, JR., (1930) B.A., M.D.  
*Associate Professor of Surgery in Charge of Orthopaedics* 812 Anderson Street
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.  
*Instructor in German* 917 Green Street
- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.  
*Assistant Professor of Accounting* 602 W. Chapel Hill Street
- SHIPMAN, GEORGE A., (1938) A.B., Ph.D.  
*Associate Professor of Political Science* 2032 Club Boulevard
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.  
*Instructor in Political Science* 1408 Dollar Avenue
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D.  
*Professor of Christian Ethics and Religious Education* 1523 Hermitage Court

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\* On leave, 1937—.

- SMITH, O. NORRIS, (1937) B.A., M.D.  
*Instructor in Medicine* Greensboro, N. C.
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 2204 Wilson Street
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.  
*Instructor in Education* 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, (1930) A.B., M.A.  
*Associate in Medicine* Hope Valley
- SNIVELY, MARY HELEN, (1930) R.N., Anes.  
*Instructor in Anesthesia* 606 Buchanan Road
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.  
*Instructor in Biblical Literature* Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 1601 Lakewood Avenue
- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* 813 Second Street
- SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.  
*Assistant Professor of Economics* 907 Second Street
- SPRUNT, DOUGLAS HAMILTON, (1932) B.S., M.S., M.D.  
*Associate Professor of Pathology* Hope Valley
- STILL, BAYRD, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* 909 N. Gregson Street
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Assistant Professor of Old Testament* 1107 Urban Avenue
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* University Apartments
- SUNDERLAND, ELIZABETH READ, (1939) A.B., A.M., Ph.D.  
*Instructor in Fine Arts* University Apartments
- SWETT, FRANCIS HUNTINGTON, (1929) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Professor of History* 116 Pinecrest Road
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* University Apartments
- THOMAS, WALTER LEE, JR., (1937) A.B., M.A., M.D.  
*Assistant Professor of Obstetrics and Gynecology* Erwin Apartments
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Pinecrest Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F.  
*Associate Professor of Forest Economics* University Apartments
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Instructor in Greek* Duke University
- VAIL, CHARLES ROWE, (1939) B.S. in E.E.  
*Instructor in Electrical Engineering* College Station

- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.  
*Assistant Professor of English* 208 Watts Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- \*VOYLES, CARL, (1931) B.S.  
*Assistant Director of Physical Education, Trinity College* 2307 Club Boulevard
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.  
*Professor of Forest Utilization* 110 Forest Wood Drive
- WADE, WALLACE, (1931) A.B.  
*Director of Physical Education, Trinity College* Myrtle Drive, West Campus
- WALLACE, WILLIAM STUART, (1938) A.B., M.D.  
*Instructor in Radiology* Duke Hospital
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L.  
*Associate Professor of Romance Languages* 1012 Green Street
- WANNAMAKER, WILLIAM HANE, (1904) A.B., A.M., Litt.D.  
*Professor of German* Myrtle Drive, West Campus
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English* 110 Pinecrest Road
- WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M.  
*Instructor in Education* 2204 Englewood Avenue
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.  
*Assistant Professor of Greek* 909 Gregson Street
- WEBB, ALBERT MICAJAH, (1903) A.B., A.M.  
*Professor of Romance Languages* 1017 Trinity Avenue
- WELFLING, WELDON, (1936) A.B., A.M., Ph.D.  
*Instructor in Economics* Corner Vineyard Street and Legion Avenue
- WEST, ALFRED THURBER, (1930) B.S., A.M.  
*Assistant Professor of English* 1020 Monmouth Avenue
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.  
*Assistant Professor of English* Chelsea Circle, Hope Valley
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English* Chelsea Circle, Hope Valley
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy* St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.  
*Professor of Mechanical Engineering* 1317 Arnette Avenue
- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S.  
*Instructor in Civil Engineering* Southgate Dormitory
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Assistant Professor of German* 918 Lamond Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.  
*Professor of Chemistry* 822 Third Street

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\*Resigned, January 15, 1939.



- \*WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODHALL, BARNES, (1937) B.A., M.D.  
*Assistant Professor of Surgery in Charge of Neuro-surgery* Pinecrest Road
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Assistant Professor of History* 2534 University Drive
- YATES, ANNE, (1933) A.B., A.M., Ph.D.  
*Assistant Professor of Biochemistry* Cornwallis Road
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.  
*Assistant Professor of Romance Languages* 13 Beverly Apartments
- YOUNG, PAUL G., (1937) B.Ph., A.M.  
*Instructor in German* 1306 N. Mangum Street
- YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D.  
*Instructor in Anatomy* 1910 University Drive
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Associate Professor of Psychology* 416 Carolina Circle
- 
- BAKER, ELEANOR USSHER, (1930) A.B.  
*Instructor in English in School of Nursing* Duke Hospital
- BATCHELDER, MARION FRANCIS, (1930) R.N.  
*Instructor in Nursing Administration and Supervision* Duke Hospital
- \*\*BURTT, EVERETT JOHNSON, JR., (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 515 South Duke Street
- CARPENTER, JAMES M., (1938) Ph.D.  
*Instructor (Part-time) in English* 406 Buchanan Boulevard
- CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M.  
*Instructor (Part-time) in History* Bassett House
- EICHER, CHESTER FRANKLIN, (1938) A.B., B.S. in Ed., B.D., A.M.  
*Instructor (Part-time) in Education* 809 Third Street
- EPPERSON, JESSE HARRISON, (1930) B.S.  
*Instructor in Preventive Medicine and Public Health* Duke Hospital
- FERGUSON, ARTHUR BOWLES, (1939) A.B.  
*Instructor (Part-time) in History* Duke University
- \*\*\*HARGREAVES, HERBERT WALTER, (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 916 Markham Avenue
- HINVES, EDITH, (1934) R.N.  
*Instructor in Nursing Supervision* Nurses Home
- MACCOLL, SYLVIA HAZELTON, (1938) A.B., M.A., Ph.D.  
*Instructor (Part-time) in Psychology* Vineyard and Legion Streets
- MARTIN, ABRAM VENABLE, JR., (1939) A.B.  
*Instructor (Part-time) in Mathematics* 1004 Minerva Avenue
- MARTIN, WILLARD EDGAR, JR., (1937) A.B., A.M.  
*Instructor (Part-time) in English* 812 Wilkerson Avenue

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\* Absent on leave, second semester, 1939-1940.

\*\* Resigned, February 1, 1939.

\*\*\* Second semester only.



- \*O'LEARY, JAMES JOHN, (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 201 House Q, West Campus
- SINGER, ARMAND E., (1938) A.B.  
*Instructor (Part-time) in French* 1013 Lamond Avenue

## INDUSTRIAL RESEARCH ASSOCIATES

- DARKIS, FREDERICK RANDOLPH Chemistry 1211 Alabama Avenue  
 B.S., M.S., Ph.D., University of Maryland
- McLEAN, RUTH Chemistry 12 Glenn Apartments  
 A.B., Woman's College of the University of North Carolina; A.M., Duke University

## INSTRUCTIONAL ASSISTANTS

- ARNETT, EUGENE WILLARD, JR., (1938) M.D.  
*Assistant in Student Health* Duke Hospital
- ARNOLD, RALPH A., (1936) B.A., M.D.  
*Assistant in Otolaryngology and Ophthalmology* Duke Hospital
- BRIDGERS, WILLIAM HENRY, (1936) B.S., M.D.  
*Assistant in Surgery* Duke Hospital
- BRYAN, W. RAY, (1938) B.S., Ph.D.  
*Research Associate in Experimental Surgery* Duke Hospital
- BRYSON, EDWIN CONSTANT, (1931)  
*Assistant in Legal Aid Clinic* 1023 Sycamore Street
- CUYLER, W. KENNETH, (1938) B.A., M.A.  
*Research Fellow in Endocrinology* Duke Hospital
- DUNLAP, ERNEST BRINDLEY, JR., (1938) A.B.  
*Assistant in Anatomy* Duke Hospital
- EASLEY, ELEANOR BEAMER, (1934) B.A., M.A., M.D.  
*Assistant in Obstetrics and Gynecology* Duke Hospital
- FERRO, MARIA, (1939) A.B., M.A.  
*Assistant in Medical Social Service* Duke Hospital
- FRITZ, MILO, (1936) A.B., M.D.  
*Assistant in Otolaryngology and Ophthalmology* Duke Hospital
- GOODMAN, ELIZA DOROTHY, (1934) R.N., Anes.  
*Assistant in Anesthesia* 407 Cook Street
- GUNTER, JUNE U., (1938) A.B., M.D.  
*Assistant in Pathology* Duke Hospital
- HAMM, ALMA SMITH, (1937) R.N., Anes.  
*Assistant in Anesthesia* 409 Cook Street
- HARRELL, GEORGE THOMAS, JR., (1938) B.A., M.D.  
*Assistant in Medicine* Duke Hospital
- HARRIS, LEO CLAY, JR., (1938) M.D.  
*Assistant in Surgery* Duke Hospital
- HARVEY, HAROLD IRA, (1937) A.B., M.D.  
*Assistant in Medicine* Duke Hospital
- HURT, FLOYD KINZER, (1938) M.D.  
*Assistant in Radiology* Duke Hospital
- KAUFMAN, WILLIAM HENRY, (1937) B.A., M.D.  
*Assistant in Medicine* Duke Hospital
- KLEIN, JAMES RAYMOND, (1930) A.B.  
*Assistant in Biochemistry* Duke Hospital

\* Second semester only.

- KNIGHT, ALTON J., (1938) A.B., LL.B.  
*Assistant in Legal Aid Clinic* 1404 North Duke Street
- LEVY, EDWARD DAVID, (1938) A.B.  
*Assistant in Biochemistry* Duke Hospital
- LIGHTNER, CLARENCE MCGRAW, (1937) A.B., M.D.  
*Research Assistant in Pathology* Duke Hospital
- LOVELL, DURWARD LEE, (1937) M.D.  
*Assistant in Surgery* Duke Hospital
- MACCOLL, WILLIAM ALEXANDER, (1938) B.A., M.D.  
*Assistant in Pediatrics* Duke Hospital
- MARTIN, DAVID WILLIAM, (1938) B.S., M.D.  
*Assistant in Pediatrics* Duke Hospital
- MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College,  
 Columbia University  
*Assistant in Education* Route No. 2, Durham, N. C
- MILLER, CHARLES HENDERSON, (1934) A.B., LL.B.  
*Assistant in Legal Aid Clinic* 2208 Woodrow Street
- MORTON, HENRY GEORGE, (1938) B.S., M.D.  
*Assistant in Pediatrics* Duke Hospital
- MOSELEY, VINCE, (1937) A.B., M.D.  
*Assistant in Medicine* Duke Hospital
- PETTUS, WILLIAM HENRY, JR., (1937) B.S., M.D.  
*Assistant in Surgery* Duke Hospital
- PHILLIPSON, ELMA O., (1938) A.B., M.A.  
*Assistant in Medical Social Service* 208 Buchanan Road
- PLATT, LOUIS, (1938) A.B., M.D.  
*Assistant in Pediatrics* Duke Hospital
- POSTLETHWAIT, RAYMOND WOODROW, (1937) B.S., M.D.  
*Assistant in Medicine* Duke Hospital
- REISER, RAYMOND, (1936) A.B., Ph.D.  
*Fellow in Medicine* Duke Hospital
- RICKETTS, EDWIN TYSON, (1938) B.S., M.D.  
*Assistant in Biochemistry* Duke Hospital
- RUCKER, EDWIN MACRAE, (1934) A.B., M.D.  
*Assistant in Obstetrics and Gynecology* Duke Hospital
- SCHLAYER, CLOTILDE, (1937) M.D.  
*Research Assistant in Medicine* Duke Hospital
- SCHULZE, WILLIAM, (1936) B.S., M.D.  
*Assistant in Medicine* Duke Hospital
- SEALY, WILL CAMP, (1936) B.S., M.D.  
*Assistant in Surgery* Duke Hospital
- SMITH, PRESTON, (1932)  
*Assistant in Clinical Microscopy* 114 E. Seeman Street
- STEVENS, JOSEPH BLACKBURN, (1936) B.S., M.D.  
*Assistant in Medicine* Duke Hospital
- STUART, CHRISTOPHER, JR., (1936) M.D.  
*Assistant in Surgery* Duke Hospital
- STUBBS, ALSTON, (1935) A.B., LL.B., LL.M.  
*Assistant in Legal Aid Clinic* University Apartments

THOMAS, JUNE B., (1937) A.B., M.D. <i>Assistant in Student Health</i>	Duke Hospital
UPCHURCH, SAMUEL EARLE, (1933) B.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
WATERS, CHESTER H., JR., (1938) B.A., M.D. <i>Assistant in Orthopaedics</i>	Duke Hospital
WILLIAMS, ROBERT, (1936) A.B., M.D. <i>Assistant in Radiology</i>	Duke Hospital
WISE, NANCY BOWMAN, (1937) A.B., M.D. <i>Research Fellow in Medicine and Bacteriology</i>	Duke Hospital

**INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
TRINITY COLLEGE**

CALDWELL, HERSCHEL, (1930) <i>Instructor in Physical Education; Coach of Freshman Sports</i>	920 Buchanan Boulevard
CAMERON, EDMUND McCULLOUGH, (1926) A.B. <i>Instructor in Physical Education; Head Coach of Varsity Basketball; Assistant Coach of Football</i>	Hope Valley
CARD, WILBUR WADE, (1902) A.B. <i>Instructor in Physical Education</i>	1110 Minerva Avenue
COOMBS, JOHN WESLEY, (1929) B.S. <i>Instructor in Physical Education; Head Coach of Varsity Baseball</i>	101 House DD, Craven Quadrangle
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Instructor in Physical Education; Head Coach of Varsity Track</i>	Powe Apartments
CRICHTON, MARSHALL, (1931) <i>Instructor in Golf</i>	Hope Valley
DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	University Apartments
FOGLEMAN, WILLIAM HARRY, (1935) <i>Instructor in Physical Education; Coach of Tennis</i>	University Apartments
GERARD, KENNETH, (1931) B.S. <i>Instructor in Physical Education; Director of Intramural Sports</i>	1209 North Duke Street
HAGLER, ELLIS, (1930) A.B. <i>Instructor in Physical Education; Coach of Varsity Golf; Assistant Coach of Football</i>	911 Arnette Avenue
LEWIS, HUBERT MURRY, (1937) B.S. <i>Assistant Instructor in Physical Education and Track</i>	Duke University
PERSONS, WALTER, (1930) <i>Instructor in Physical Education; Coach of Swimming</i>	West Campus
STANLEY, DENNIS KEITH, (1939) A.B.E., M.Ed. <i>Instructor in Physical Education; Assistant Coach of Football</i>	University Apartments
WARREN, ADDISON, (1931) A.B. <i>Assistant Instructor in Physical Education; Coach of Boxing</i>	115 Dillard Street

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
THE WOMAN'S COLLEGE

- BOOKHOUT, ELIZABETH CIRCLE, MRS., (1932) A.B., M.S.  
*Instructor in Physical Education* 12 Bickett Apartments
- DOWLING, MARY LOUISE, (1937) B.S.  
*Instructor in Physical Education* K-3-B University Apartments
- LEWIS, MARTHA MODENA, (1933) B.S.  
*Instructor in Physical Education* 207 Watts Street
- WYCHE, ALMA VIRGINIA, (1930) A.B., M.S.  
*Instructor in Physical Education* 301 Erwin Apartments

THE UNIVERSITY LIBRARIES

- BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D.  
*Director of Libraries* Hope Valley
- LAND, WILLIAM GOODFELLOW, A.B., A.M.  
*Assistant Director of Libraries* University Apartments

GENERAL LIBRARY

- BREEDLOVE, JOSEPH PENN, A.B., A.M.  
*Librarian* 407 Watts Street
- LUND, JOHN JORGENSEN, A.B., Ph.D., Certificate in Librarianship  
*In Charge of Order Department* 1015 Gloria Avenue
- MALONE, EVA EARNSHAW, A.B., B.S.  
*Assistant Librarian in Charge of Cataloguing* 512 Watts Street
- \*NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D.  
*Reference Librarian* 1601 Club Boulevard
- PRATT, ELLIS CARL, A.B.  
*In Charge of Circulation Department* 1000 Broad Street
- 
- \*\*BONNER, BERNICE, MRS.  
*Clerical Assistant in Order Department* 905 Sixth Street
- BURCH, VELLA JANE, A.B., A.M., A.B. in L.S.  
*Cataloguer* 316 North Elizabeth Street
- \*COVINGTON, LENA, A.B.  
*Assistant in Order Department* 1008 Monmouth Avenue
- CREWS, SUDIE ELIZABETH  
*Assistant in Order Department* 1004 West Trinity Avenue
- \*\*\*EVINS, SARAH ELFORD, B.S., B.A. in L.S.  
*Cataloguer* Beverly Apartments
- FRAZIER, ROSE MARIE, B.S., B.M., A.B.  
*Cataloguer of Documents* 702 Buchanan Boulevard
- FREY, ELLEN, B.A.  
*Assistant in Manuscript Room* Faculty Apartments
- GANTT, EVA GOLDIE, A.B.  
*Assistant in Order Department* 1311 Arnette Avenue

\* Absent on leave, 1938-1939.

\*\* Resigned, March 15, 1939.

\*\*\* Resigned, November 15, 1938.

GREEN, JANE, A.B., B.A. in L.S. <i>Assistant in Order Department</i>	1004 West Trinity Avenue
HAMILTON, MARY ELIZABETH BOYD, MRS., A.B., B.S. <i>Assistant Reference Librarian</i>	410 Watts Street
HELMAN, EUGENIE, MRS. <i>Attendant in Engineering Library</i>	1005 West Trinity Avenue
HIX, EDWIN JONATHAN, A.B. <i>Assistant in Circulation Department</i>	1303 Duke University Road
HOBBS, SARAH BLANCHARD, MRS., A.B., B.S. <i>Cataloguer</i>	Powe Apartments, Buchanan Road
IZARD, ANNE REBECCA, A.B. <i>Junior Cataloguer</i>	1011 Monmouth Avenue
JAFFE, LILLIAN DOROTHY <i>Typist in Cataloguing Department</i>	704 Roxboro Street
JETT, FLORENCE LEIGH, A.B., A.B. in L.S. <i>Assistant in Order Department</i>	1011 Monmouth Avenue
JOYNER, WILLIAM EPIE, A.B. <i>In Charge of Reserve Book Room</i>	2206 Wilson Street
*KEEN, EUNICE, A.B., B.A. in L.S. <i>Cataloguer</i>	411 Cleveland Street
KLEIN, LENETTA GARRETT, MRS., Certificate in Librarianship <i>Cataloguer</i>	919 Second Street
LEWIS, EVELYN, B.S. <i>Cataloguer</i>	1008 Monmouth Avenue
LINEBERRY, FOY, A.B., B.A. in L.S. <i>Cataloguer</i>	1007 Lamond Avenue
MATTHEWS, MARY, MRS., A.B., A.M. <i>Attendant in Chemistry Library</i>	2013 Wa Wa Avenue
MAULTSBY, KATHLEEN, A.B. <i>In Charge of Workroom</i>	501 Elizabeth Street
MERRITT, GERTRUDE, A.B. <i>Assistant in Order Department and Cataloguer of Serials</i>	814 Markham Avenue
MORGAN, KATHERINE, MRS., A.B. <i>Attendant in Physics Library</i>	University Apartments
MYERS, MILDRED FLORENCE, A.B., B.S. in L.S. <i>Cataloguer</i>	704 Buchanan Boulevard
**NUERMBERGER, RUTH KETRING, MRS., A.B., A.M., Ph.D. <i>In Charge of Manuscript Room</i>	1601 Club Boulevard
OATHOUT, MELVIN, A.B., A.B. in L.S. <i>Assistant in Reference Department</i>	1305 Watts Street
OGDEN, CATHERINE, A.B., B.S. in L.S. <i>Assistant in Order Department</i>	1111 Urban Avenue
OYLER, HELEN, A.B., B.S. in L.S. <i>Cataloguer</i>	704 Buchanan Boulevard
PARKER, WIXIE ELMA, A.B., B.S. in L.S. <i>In Charge of Periodical Room</i>	201 Erwin Apartments

\* Resigned, September 1, 1938.

\*\* Absent on leave, 1938-1939.

POOLE, MARY ELIZABETH, A.B., B.A. in L.S. <i>Assistant in Document Room</i>	407 Watts Street
RAMAGE, MARY ALLENE, A.B., B.A. in L.S. <i>In Charge of Newspaper Room</i>	1003 Monmouth Avenue
ROBERTS, DORA YOUNG, MRS. <i>Typist in Cataloguing Department</i>	Hillsboro, N. C.
ROSE, ETHEL ABERNETHY, MRS., A.B. <i>Cataloguer</i>	603 Watts Street
SEIGLER, HAZEL GANTT, MRS., A.B. <i>Junior Cataloguer</i>	718 Vickers Avenue
SHORE, CULVER, A.B. <i>Attendant in Graduate Reading Room</i>	202 Epworth, East Campus
SHARPE, NANCY ELIZABETH <i>Clerical Assistant in Order Department</i>	1303 Lakewood Avenue
SHUFORD, MARY OPAL, A.B. <i>Typist in Cataloguing Department</i>	805 Sixth Street
STALLCUP, MARY JANE, B.S., B.A. in L.S. <i>Assistant in Reference Department</i>	407 Watts Street
STEVENSON, MARY ESTHER, A.B., A.B. in L.S. <i>Cataloguer</i>	Chapel Hill, N. C.
STROWD, ANNE, A.B. <i>Secretary to the Director</i>	901 Mangum Street
TATUM, WILLIAM GILCHRIST, JR., A.B. <i>Attendant in Periodical Room</i>	1200 College Road
THOMPSON, SARAH WRAY, A.B. <i>In Charge of Business Division of the Order Department</i>	208 Buchanan Boulevard
TILLEY, NANNIE M., A.B., A.M. <i>Assistant in Manuscript Room</i>	2313 Club Boulevard
WESCOTT, MARY, A.B., B.S. <i>Cataloguer</i>	1008 Monmouth Avenue
WILKERSON, LULA HUNT, MRS. <i>Secretary to the Librarian</i>	1000 Broad Street
*WILLIFORD, ANNIE MAY, A.B., A.M., Ph.D. <i>Assistant in Manuscript Room</i>	Faculty Apartments, East Campus
WOODALL, EVA AVERY, A.B. <i>Attendant in School of Religion Library</i>	1003 Monmouth Avenue
WYNNE, MARJORIE, A.B. <i>Attendant in Biology Library</i>	506 Buchanan Road

## WOMAN'S COLLEGE LIBRARY

GRIGGS, LILLIAN BAKER, MRS., B.A. in L.S. <i>Librarian</i>	900 Monmouth Avenue
COBB, BERTHA ELIZABETH, A.B., B.A. in L.S. <i>Assistant in Circulation Department</i>	520 South Duke Street
FAUCETTE, MARY ELIZABETH, A.B. <i>Assistant in Circulation Department</i>	610 East Trinity Avenue

\* Resigned, February 1, 1939.



HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S. <i>In Charge of Cataloguing</i>	1008 Monmouth Avenue
HICKS, SPEARS, MRS., A.B., A.B. in L.S. <i>Reference Librarian</i>	121 West Seeman Street
MARTIN, CAROLINE, A.B., A.B. in L.S. <i>Cataloguer</i>	208 Watts Street
MONTGOMERY, MARGARET ELIZABETH, A.B. <i>In Charge of Periodicals</i>	205 Faculty Apartments, East Campus
*TUDOR, FRANCES, A.B. <i>In Charge of Circulation Department</i>	207 Watts Street

## LAW LIBRARY

ROALFE, WILLIAM ROBERT, LL.B. <i>Librarian</i>	1109 North Gregson Street
COVINGTON, MARY SIMMONS, A.B., LL.B. <i>Research Librarian</i>	Faculty Apartments
DAY, KATHERINE, B.S. <i>Assistant Cataloguer</i>	512 Watts Street
LONG, MARIANNA, A.B., B.S. in L.S. <i>Head Cataloguer</i>	1008 Monmouth Avenue
MANGUM, HAZEL <i>Assistant in Order Division</i>	110 Buchanan Road
WALKER, ANNIE CARPENTER, MRS. <i>Secretary to the Librarian</i>	2121 West Pettigrew Street

## MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S. <i>Librarian</i>	177 Faculty Apartments, East Campus
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## UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D. <i>Dean of the Chapel</i>	Buchanan Road
BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Choral Music</i>	703 Watts Street
BREES, ANTON <i>University Carillonneur</i>	1308 College Road
BROADHEAD, EDWARD HALL, A.B., A.M. <i>University Organist</i>	1001 Watts Street
CLEAVELAND, FREDERIC NEILL, A.B. <i>Assistant in Religious Activities</i>	2212 University Drive
**CUNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (Oxon.), A.M. <i>Acting Director of Religious Activities</i>	West Campus
SOMERVILLE, WILLIAM BIERMAN, A.B. <i>Assistant in Religious Activities</i>	Duke University

\* Absent on leave, 1938-1939.

\*\* Absent on leave, 1939-1940.

## PHYSICAL EDUCATION AND STUDENT HEALTH

SPEED, JOSEPH ANDERSON, M.D.  
*Director of Student Health*

913 Dacian Avenue

FLETCHER, JUNE THOMAS, MRS., A.B., M.D.  
*Physician, Woman's College*

WADE, WALLACE, A.B.

*Director of Physical Education, Trinity College*

West Campus

GROUT, JULIA REBECCA, A.B., M.S.  
*Director of Physical Education,  
 Woman's College*

104 Faculty Apartments, East Campus

PAGE, WRAY RAMSEY, MRS., (1928) R.N.  
*Resident Nurse*

East Campus Infirmary

VESTAL, MOZELLE, (1931) R.N.  
*Resident Nurse*

East Campus Infirmary

## SOCIAL AND MUSICAL ACTIVITIES

BARNES, EVELYN, B.S.  
*Assistant Social Director of the Woman's College,  
 Head of Alsbaugh House*

Alsbaugh House

BARNES, JAMES FOSTER, MRS.  
*Director of the Woman's College Musical Clubs*

703 Watts Street

CHAFFIN, NORA CAMPBELL, A.B., A.M.  
*Head of Bassett House*

Bassett House

FEARING, ROBERT BEVERIDGE  
*Director of the College Orchestras and Band*

703 Watts Street

KESTLER, MARY, A.B., A.M.  
*Head of Jarvis House*

Jarvis House

MEADE, MARY E., A.B.  
*Head of Aycock House*

Aycock House

PEMBERTON, MARY NORCOTT, MRS.  
*Hostess, West Campus Union*

Kilgo Quadrangle, West Campus

TAYLOR, HARRIET, MRS.  
*Head of Giles House*

Giles House

UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.  
*Financial Adviser, Student Activities*

Faculty Apartments

## FELLOWS AND GRADUATE ASSISTANTS

## UNIVERSITY FELLOWS

ABBETT, CAROL HOPE History Faculty Apartments  
 A.B., Macalester College; A.M., University of Minnesota

ANDERSON, MARCIA LEE English 410 Watts Street  
 A.B., Bryn Mawr College; A.M., Duke University

AYERS, JOHN CARR Zoology 1014 Lamond Avenue  
 A.B., Kalamazoo College; M.S., Kansas State College

BOOMHOUR, ELIZABETH GREGORY Botany East Campus  
 A.B., Meredith College; A.M., Cornell University

BRACH, EARL TILTON A.B., Duke University	Greek	1106 Chapel Hill Street
BRIGHT, ROBERT DIETRICH A.B., Dartmouth College	Chemistry	H2B University Apts.
CORRELL, DONOVAN STEWART A.B., A.M., Duke University	Botany	Harvard University
FOSTER, HAZEL ELIZABETH A.B., Hood College; A.M., Duke University	Political Science	102 Faculty Apts.
GARBER, PAUL LESLIE A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary	Religion	2114 Myrtle Drive
GUYTON, PERCY LOVE B.S., Mississippi State College; M.B.A., Northwestern University	Economics	Brookings Institution
HAMILTON, JAMES DAVID TILLMAN A.B., A.M., University of Mississippi	History	Box 4862, Duke Station
HARGRAVES, HERBERT WALTER A.B., University of Nevada; A.M., Clark University	Economics	916 Markham Avenue
KINCHELOE, HENDERSON GRADY A.B., University of Richmond; A.M., Harvard University	English	1505 Duke Univ. Rd.
KIRBY-SMITH, JOHN SELDEN B.S., University of the South; A.M., Duke University	Physics	307-DD
LUTTRELL, EVERETT STANLEY B.S., University of Richmond	Botany	1004 Minerva Avenue
MARTIN, ABRAM VENABLE, JR. A.B., Presbyterian College	Mathematics	1004 Minerva Avenue
O'LEARY, JAMES JOHN A.B., A.M., Wesleyan University	Economics	201-Q
PARK, ROBERT DEFOREST A.B., Oberlin College	Physics	307-DD
POHL, HERBERT ACKLAND A.B., Duke University	Chemistry	012-V
REIN, WILLIAM CHRISTOPHER A.B., Western Maryland College; M.Ed., Duke University	Education	818 Sixth Street
WHARTON, GEORGE WILLARD, JR. B.S., Duke University	Zoology	7 Bickett Apts.

## GRADUATE ASSISTANTS

ABRAMOVITCH, BENJAMIN B.S., McGill University	Chemistry	M3A University Apts.
AUSTIN, MARGUERITE ZELLE A.B., Winthrop College	French	215 Faculty Apts.
BALLARD, CARROLL CHADWICK A.B., Duke University	Economics	M2B University Apts.
BARBOUR, WILLIAM JOHNSTON A.B., University of North Carolina	Botany	1004 Minerva Avenue
BRANDIS, ROLAND BUFORD, JR. A.B., University of Richmond	Economics	808 N. Gregson St.
BRESLOW, DAVID SAMUEL B.S., College of the City of New York	Chemistry	307-C

BRICE, ASHBEL GREEN A.B., A.M., Columbia University	English	304-B
CAIN, HERBERT LLOYD A.B., Southwestern; A.M., Duke University	Greek	1012 Urban Avenue
CAUSEY, NELLE BEVEL B.S., College of the Ozarks; A.M., University of Arkansas	Zoology	306 Faculty Apts.
*COLLINS, HAROLD REEVES A.B., Duke University; A.M., Columbia University	English	303-A
COOK, ELLSWORTH BARRETT B.S., Springfield College	Zoology	107 Epworth
**COVINGTON, PHILIP STANHOPE SHEFFIELD A.B., Emory University	English	819 Third Street
COX, HEADLEY MORRIS, JR. A.B., Duke University	English	201-C
CREEGAN, ROBERT FRANCIS A.B., Marietta College; A.M., Duke University	Philosophy	814 Sixth Street
DERR, PAUL FRANKLIN B.S., Duke University	Chemistry	307-C
DETURK, WILLIAM ERNEST A.B., A.M., University of Illinois	Zoology	2715 Chapel Hill Rd.
***DOTY, ROY A., JR. A.B., A.M., Duke University	Education	1007 W. Trinity Ave.
DUKE, KENNETH LINDSAY A.B., Brigham Young University	Zoology	2811 Hillsboro Rd.
DUNCAN, HARRY ALVIN A.B., Grinnell College	English	1206 N. Gregson St.
DUNSKY, IRVIN A.B., University of Newark	Sociology	1801 Lakewood Ave.
EDDY, GEORGE NORMAN Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College	Sociology	K2C University Apts.
FARLEY, JOHN THOMAS B.B.A., Manhattan College; M.S., Columbia University	Economics	116 Buchanan Rd.
FLEMISTER, LAUNCE JOHNSON, JR. A.B., Duke University	Zoology	1018 Gloria Avenue
FORMWALT, JOHN MCCLELLAN A.B., Carson-Newman College	Physics	206-B
GARNER, WILLIAM NELSON B.S., Bethany College	Zoology	University Apts.
GILBERT, PAUL WILNER A.B., A.M., University of Rochester	Mathematics	103-A
HARRIS, SARAH SANDERS A.B., Woman's College of Furman University; A.M., University of South Carolina	Psychology	115 Faculty Apts.
HEYWARD, MARY ANNE A.B., Duke University	English	305 Faculty Apts.

\* First semester only.

\*\* Second semester only.

\*\*\* A.M. to be conferred June, 1939.

HOPKINS, JAMES FRANKLIN A.B., University of Mississippi; A.M., University of Kentucky	History	University Apts.
HUDSON, BOYD ELLYSON, JR. A.B., Duke University	Chemistry	1114 Hillandale Rd.
HUMPHREYS, MARY EMILY A.B., Western Maryland College; A.M., Duke University	Botany	102 Faculty Apts.
JOHNSTON, GEORGE WASHINGTON B.S., M.S., Mississippi State College	Botany	704 Buchanan Rd.
KUEHNER, KENNETH GEORGE A.B., Allegheny College; A.M., University of Pittsburgh	Education	114 Epworth Hall
LAVERTY, CARROLL DEE A.B., A.M., University of Colorado	English	2500 Club Blvd.
LEATH, JAMES MILTON A.B., Austin College; A.M., Southern Methodist University	Political Science	2003 Club Blvd.
LIMOUZE, ARTHUR SANFORD A.B., College of Wooster; A.M., Columbia University	English	206-B.
MCWHITE, ELBERT NORTON B.S., The Citadel; M.S., University of Georgia	Physics	Pickett Road
MANGRUM, JAMES FREED B.S., State Teachers College, Memphis, Tennessee; M.S., University of Tennessee	Zoology	Zoology Department
MARYOTT, ARTHUR ALLEN A.B., Duke University	Chemistry	204-B.
MILES, FRANK FRODSHAM A.B., University of Washington	Sociology	1803 Lakewood Ave.
MITCHELL, ROBERT EARL A.B., Miami University	English	Box 4798, Duke Station
MORRISON, GARRETT WEIR A.B., Kansas State Teachers College	Psychology	117 Epworth
MOUNTJOY, MARJORIE A.B., Vanderbilt University	Latin	302 Faculty Apts.
PLANTINGA, CORNELIUS A. A.B., Calvin College; A.M., University of Michigan	Philosophy	814 Sixth Street
POPE, MARVIN HOYLE A.B., Duke University	Religion	317 Anderson Street
PURCELL, JAMES SLICER, JR. A.B., John B. Stetson University; A.M., Duke University	English	1505 Duke University Rd.
RAMSEY, HELEN JOYCE B.S., M.S., Purdue University	Zoology	Faculty Apts.
RICHARDS, CLAUD HENRY, JR. A.B., Texas Christian University	Political Science	918 Urban Ave.
ROBERG, JANE B.S., University of Washington	Physics	114 Faculty Apts.
SCARBOROUGH, HENRY BALDWIN A.B., Duke University	Physics	Physics Building
SCHULTZ, HAROLD A.B., Columbia University	History	M3A University Apts.
SEWARD, DONALD MONFORT A.B., John B. Stetson University; A.M., University of North Carolina	Mathematics	2541 Chapel Hill Rd.

SEWARD, WILLIAM WARD, JR.	English	1603 Duke Univ. Rd.
A.B., A.M., University of Richmond		
SMITH, CLARENCE MCKITTRICK, JR.	History	104-A
A.B., B.Mus., Newberry College; A.M., Harvard University		
STABLER, CAREY VITALLIS	History	2009 Pershing Street
B.S., A.M., University of Alabama		
STAINBROOK, EDWARD JOHN	Psychology	1206 N. Gregson St.
A.B., Allegheny College		
STEELE, ALPHEUS THORNTON	Economics	812 Sixth Street
A.B., Municipal University of Wichita		
STOREY, JOHN STUART	Economics	206 Watts Street
A.B., Albion College		
STUCKEY, JAMES MORLAN	Chemistry	Chemistry Department
B.S., Centenary College; A.M., Duke University		
TALBERT, ROBERT HARRIS	Sociology	401-G
A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri		
TURNER, WALLACE BLYTHE	History	206 Atlas Street
A.B., Georgetown College; A.M., University of Kentucky		
WADE, LUTHER IRWIN	Mathematics	1106 Chapel Hill St.
A.B., Duke University		
WALTCHER, IRVING	Chemistry	M2B University Apts.
B.S., Rhode Island State College		
WALTERS, ELEANOR BOYD	Mathematics	1111 Urban Avenue
B.S., Delta State Teachers College		
WATTS, HESSIE BRAWLEY	English	306 Faculty Apts.
A.B., A.M., Duke University		
WEBB, JOHN MAURICE	History	1017 Trinity Avenue
A.B., Duke University; A.M., Yale University		
WELLS, ELGIN MILES, JR.	Physics	M2B University Apts.
A.B., Mississippi College		
WOLF, MARY HUBBARD	Zoology	924 Urban Avenue
A.B., Mount Holyoke College		
YOUNG, DEWALT SECRIST	Chemistry	01-C
A.B., Cornell (Iowa) College; A.M., Duke University		

## GRADUATE SCHOLARS

BENNETT, GEORGIA BELLE	Psychology	506 Watts Street
A.B., College of William and Mary; A.M., Duke University		
BETHEL, JAMES SAMUEL	Forestry	201 Jones Street
B.S.F., University of Washington		
BOND, ESTHER MAY	Psychology	818 Sixth Street
B.S., M.S., Florida State College for Women		
*BUSSELL, WILSIE FLORENCE	French	816 Watts Street
**A.B., A.M., Duke University		
CARRAWAY, JAMES BLANDING	Economics	806 Sixth Street
A.B., Furman University		
COLLEY, FRANK HARRIS	History	Hope Valley
A.B., Duke University		
COLLOMS, LESTER HUBERT	Religion	1018 Monmouth Ave.
A.B., Emory and Henry College; B.D., Emory University		

\* First semester only.

\*\* A.M. to be conferred June, 1939.



DECKER, JOHN PETER B.S., University of Idaho	Botany	704 Buchanan Blvd.
DOTY, CORNELIA ALLEN A.B., Stanford University; A.M., Mills College	Education	1007 W. Trinity Ave.
DOWLING, ARTHUR JOSEPH, JR. A.B., Duke University	Philosophy	1010 W. Trinity Ave.
EWING, THOMAS NEWELL, JR. A.B., DePauw University; A.M., Syracuse University	Psychology	117 Epworth Hall
GILL, RUTH ELLEN A.B., Woman's College of the University of North Carolina	Physics	303 Faculty Apts.
HAUSSER, HARRY EDWARD A.B., Duke University	Philosophy	1026 Monmouth Ave.
HIBBS, MAX LEE B.S., Alabama Polytechnic Institute	History	116 Buchanan Blvd.
JENNINGS, LOUIS GIRTON A.B., Franklin and Marshall College	Latin	201-C
*LATTY, CAROLYN LUCILE **A.B., Duke University	French	2016 Wilson St.
LIU, YUNG HUO A.B., Hwa Nan College; A.M., Mills College	Psychology	806 Third Street
LONG, JOHN WILLIAM, JR. A.B., Dickinson College	History	2414 Club Blvd.
MERRICK, GORDON DANFORTH B.S., University of Chicago	Forestry	918 Urban Ave.
MOORE, THOMAS HAYES B.S., Roanoke College	Economics	114 Epworth
MUNSTER, RALF FRIEDRICH WILLIAM A.B., Duke University	Political Science	204-B
NELSON, MELVIN FREDERICK B.S., Mississippi State College; A.M., Municipal University of Omaha	Political Science	1411 B Street
PECK, ROBERT LAWRENCE B.S., Duke University	Chemistry	819 Third Street
RICHARDS, JAMES AUSTIN, JR. A.B., Oberlin College	Physics	Box 4173, Duke Station
SINDLE, ELIZABETH MARY A.B., Bucknell University	French	305 Faculty Apts.
SINGER, ARMAND EDWARDS A.M., Amherst College	French	1013 Lamond Avenue
STEWART, PAUL DEKKER A.B., Hope College	Political Science	2102 Englewood Ave.
STURM, ALBERT LEE, JR. A.B., Hampden-Sydney College	Political Science	116 Buchanan Blvd.
TATE, RUSSELL SAGE, JR. A.B., University of Richmond	Economics	201 Jones Street
TOOLE, EBEN RICHARD B.S., New York State College of Forestry; A.M., Duke University	Forestry	704 Buchanan Rd.
WOOD, FREDERIC MARCUS, JR. A.B., Adelbert College of Western Reserve University	Latin	1010 W. Trinity Ave.

\* Second semester only.

\*\* A.B. to be conferred June, 1939.

## THE COLLEGES

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### GENERAL STATEMENT

Duke University offers in Trinity College and the Woman's College three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering. Ten groups of studies lead to the degree of Bachelor of Arts, and two groups of studies lead to the degree of Bachelor of Science. These groups are designated by Roman numerals in the order in which they are described. For a description of these groups, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Arts."

For a description of the groups of studies leading to the degree of Bachelor of Science, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Science and Bachelor of Science in Civil, Electrical, or Mechanical Engineering."

### TRINITY COLLEGE

Trinity College is the undergraduate college for the men of Duke University and is situated on the West Campus along with the Graduate Schools of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the School of Religion. The Division of Engineering is situated on the East Campus, apart from the Woman's College.

The regulations governing the undergraduate men of Trinity College are published in subsequent sections of this catalogue.

### THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

The teachers of the College, many of whom teach also in Trinity College, are members of the University Faculty and are selected in co-operation with the several departments of instruction just as in the case of teachers for Trinity College, thus assuring a uniform educational standard. Graduates of the Woman's College, as graduates of all other colleges and schools within the University, receive their degrees from Duke University.

The Woman's College offers the advantages of a separate college for women with its own distinct life and at the same time, through the close association with the larger University life, preserves some of the best features of co-education. It is the aim of the College to make it possible for a woman to take all of her work, if she so wishes, on the woman's

campus. However, all courses in the University are open to qualified women students, and they may enter courses given on the West Campus which are not given on the East.

### THE LIBRARIES

The Library resources of the University total 529,140 volumes and approximately 534,536 manuscripts. Fifty-five domestic and twenty foreign current newspapers, in addition to 2,874 current periodicals are received.

The General Library, in which the bulk of the collection is housed, is centrally located on the West Campus. The Undergraduate Reserve Room on the first floor seats 180 readers. In order to give students free access to the volumes placed here, the reserves are kept on open shelves. This room thus provides an undergraduate reading collection of approximately five thousand especially selected volumes. The Reference Room on the second floor contains about six thousand volumes of the most important reference works. The Current Documents Room on the first floor provides students in the social sciences with up-to-date basic data issued by the federal government and the states. Seniors, honor students and others undertaking special studies may be admitted to the stacks to facilitate their work. Libraries in the chemistry, physics, biology, and engineering buildings are a special convenience for students in these sciences.

The Woman's College Library, which is one of the dominant units of the Georgian architecture of the East Campus, contains approximately 38,000 volumes. Among these are the books most constantly needed in the undergraduate work of women students. An attractive feature of the Library is the Booklovers' Room, comfortably furnished, where on open shelves students may find the newest books in various fields.

Undergraduate students also have free access to the library collections of the Medical School, Law School, and School of Religion.

# ADMISSION TO COLLEGE

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## GENERAL REGULATIONS

Admission to Trinity College and to the Woman's College of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. A personal interview with each applicant is regarded as desirable. This is of advantage not only to the Council but also to the applicant, since it enables him to acquaint himself to some extent with the University and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculation.

Since the enrollment in the undergraduate college is limited, an early application is desirable. Application blanks will be sent upon request, and they should be returned as soon as possible.

*All correspondence relating to admission of men should be addressed to the Secretary of Duke University, Duke Station, Durham, North Carolina; and all correspondence relating to the admission of women should be addressed to the Committee on Admissions, College Station, Durham, North Carolina.*

## UNITS OF ADMISSION

The academic requirements for admission are defined in terms of units. A unit of credit is allowed for a subject of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily. Credit for fifteen units is required for admission.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Agriculture .....	2
History and Social Studies.....	4	Household Economics.....	2
Latin .....	4	Mechanical Drawing.....	2
Mathematics .....	4	Woodworking, Forging, and	
Spanish .....	3	Machine Work.....	2
French .....	3	Art .....	1
German .....	3	Botany .....	1
Greek .....	3	Chemistry .....	1
Commercial Subjects.....	3	Economics .....	1

	UNITS		UNITS
General Biology.....	1	Physics .....	1
General Science.....	1	Sociology .....	1
Music .....	1	Zoology .....	1
Physical Geography.....	1		

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

### ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least twelve of the fifteen units required for admission must come from the following:

	UNITS		UNITS
English .....	3 to 4	Mathematics .....	2 to 4
Foreign Language.....	2 to 6	Science .....	1 to 4
History and Social Studies...	1 to 4		

These twelve units must include three in English and two in mathematics. The units in mathematics must include one in algebra and one in plane geometry.

The three additional units necessary to make the required fifteen may come from the list above or from the larger table of units of admission.

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University are required to validate their units by entrance examinations and such other tests as the University may prescribe.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by examinations.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect



more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester-hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students enrolling for the Bachelor's degree who transfer from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, are under all circumstances required to continue for at least one semester in Trinity College and in the Woman's College the foreign language they present for minimum graduation requirements.

Students who have transferred from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

#### FRESHMAN WEEK

The week immediately preceding the opening of college is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English, mathematics, and foreign languages. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to the new environment. Attendance upon these exercises is required of all Freshmen.

#### SPECIAL STUDENTS

Students of mature age may, upon approval by the Dean, be admitted as special students and allowed to enroll for such work as they are prepared to carry.



## REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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### GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty-two semester-hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester-hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester-hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester-hours) unless his average grade in the preceding semester is higher than "C"; or, under any conditions, to take more than nineteen semester-hours of work, exclusive of required physical education.

On or before the date announced for the spring registration every student is required to designate the group in which he plans to graduate and to arrange his program of courses for the ensuing year. All students, when choosing courses, are urged to seek the advice of instructors in whose departments they expect to receive instruction. No course card is valid until it has the approval of the Dean.

### SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester-hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester-hours; forestry, not to exceed eighteen semester-hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

#### MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English Composition* .....	6
Natural Science** .....	8
Economics, History, or Political Science*** .....	6
Religion .....	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.\*\*\*\*

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and

\* This requirement is normally met by the completion of English 1 and 2. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement.

\*\* A student who does not present for entrance an acceptable unit of science must take sixteen semester-hours of science for graduation.

\*\*\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\*\*\* Students who begin their language requirements in college are expected to follow the sequence of courses laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. Students who are granted the privilege of completing their language requirement by taking only six semester-hours in college must first pass, with at least a grade of "C," a special examination covering the work of the second college year. In addition, they must make at least an average of "C" on the work of the third college year. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek.

all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF ARTS

### GROUP I

#### GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester-hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester-hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

**Humanities:** English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

**Social Science and History:** Economics, Political Science, Education, History, Religion, Sociology.

**Mathematics, Psychology, and Natural Science:** Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester-hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester-hours in a major department and eighteen to twenty-four semester-hours in at least two other departments of the same division with a minimum of six semester-hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester-hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester-hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his division of concentration and his major department, and arrange under the guidance of an instructor in the major department his program of studies for the following year. He should obtain the instructor's written approval of all courses selected in the division of concentration before submitting his program to the Dean for final action. In like manner, upperclassmen will recheck their courses in their divisions of concentration each year with representatives of their major departments.

## GROUP II

### BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11, Mathematics 3-4, or equivalent.

Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.

Junior Year: Economics 143, 138.\*

Senior Year: Economics 181-182, 203-204.

In addition to the courses specified above, a student in this group must elect twenty-one semester-hours from other courses in the Department. Six semester-hours of this elective work shall be selected from courses in the two-hundred group offered for Seniors and Graduates. With the permission of the Head of the Department students planning to take the examination to qualify as a Certified Public Accountant may be released from this requirement.

All elective work in economics must be approved in writing by some instructor offering advanced work in the Department.

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\* With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

### GROUP III

#### RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2.

Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).

Junior Year: Religion (6 hours), Psychology 101.

Senior Year: Religion\* (12 hours), Sociology (6 hours), Philosophy (6 hours).

### GROUP IV

#### PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester-hours in a division of concentration (subject to the regulations of the General Group), twelve semester-hours of restricted electives in one or both of the other divisions with at least six semester-hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration (if the division of concentration is the Natural Sciences) or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The normal division of concentration for students electing this group is that of the Natural Sciences. However, the student may elect any one of the other two divisions for his divisional concentration. In this case, it may be necessary for him to complete more than one hundred and twenty-two semester-hours for his degree. If, however, the student chooses the Natural Sciences for his division of concentration, he is urged to take as much elective work as possible in the Divisions of the Social Studies and the Humanities.

Completion of English 1 and 2; Chemistry 1-2, 61-70, 151-152; Physics 51-52; and Zoology 1-2 will satisfy the minimum course recommendations of the Association of American Medical Colleges. Many medical schools advise the completion of additional courses in these and in other subjects. The pre-medical student should ascertain the requirements of the particular medical school that he expects to attend.

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\* Not more than six semester-hours of electives may be taken in the Department of Religion.



The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

## GROUP V

### COLLEGE TEACHING

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.\* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester-hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester-hours of work in related subjects approved by the student's Departmental Adviser; twelve semester-hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty-two semester-hours necessary for graduation.

At least twelve semester-hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

## GROUP VI

### PUBLIC SCHOOL TEACHING

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according as the student expects to teach in a secondary school or in an elementary school.

#### CLASS A: SECONDARY SCHOOL TEACHING

Students in this class are required to take:

Eighteen semester-hours in education, of which three semester-hours may be in general psychology. The work in education must include three semester-hours in directed observation and practice teaching, three semester-hours in educational psychology, and three semester-hours in secondary education.

Six semester-hours, three each, in materials and methods, in two fields of high-school teaching.

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\* Greek or Latin may be substituted for either French or German.



Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below :

English, twenty-four semester-hours, to include the six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester-hours, based on the usual two units for admission.

German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester-hours, including six each in American, ancient and medieval, and modern European history, and six semester-hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester-hours based on the traditional four units for admission.

Mathematics, fifteen semester-hours.

Physical Education, twelve semester-hours.

Science, thirty semester-hours, including elementary courses in biology, chemistry, physics, and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester-hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen.

Elective work sufficient to complete the one hundred and twenty-two semester-hours for graduation. It is recommended that the elective work be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they are going to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester-hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

#### CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English .....	3 or 6
American History and Government.....	6 or 9
Geography .....	6
Physical Education and Hygiene.....	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

FRESHMAN YEAR		S.H.
English .....		6
Foreign Language.....		6
Science .....		8
History or elective* .....		6
Education or elective** .....		6
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## GROUP VII

### PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements\*\*\* and the courses specified below.

The following arrangement of specified courses is recommended:

- Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).  
 Sophomore Year: Economics 51-52, Political Science 61-62.  
 Junior Year: Economics 143, History 105-106, Psychology 101, and either English 151 or 152.  
 Senior Year: Six semester-hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester-hours.

At least twelve semester-hours of the electives in the Senior year must be Senior-Graduate courses.

## GROUP VIII

### SOCIAL SERVICE

This group is designed for students who purpose after graduation to pursue professional studies in order to engage in practical social welfare

\* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

\*\* Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

\*\*\* When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

work, such as family welfare, child welfare, public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: History 1-2.

Sophomore Year: Economics 51-52, Sociology 91-92 or Sociology 101.

Junior Year: Philosophy (6 hours), Political Science (6 hours), Psychology 101, Sociology (6 hours).

Senior Year: Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

## GROUP IX

### ACADEMIC-LAW COMBINATION

Students in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course whereby they will receive their academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work, including both the minimum uniform and the specific requirements, in the Pre-Legal Group of studies in Duke University may on the approval of the Dean of the undergraduate college transfer to the Law School of Duke University and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester-hours of work of the first-year class in this school.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

## GROUP X

### HONORS

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

*General Rules:*

I. A student who has sixty-two semester-hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The departmental Honors program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester-hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester-hours, and the maximum shall be the equivalent of thirty-six semester-hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester-hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

*Departmental Honors:* Honors courses are available to qualified students in the following departments: Botany, Chemistry, Education, English, French, German, Greek, History, Mathematics, Philosophy, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Students transferring from other institutions of approved standing at the close of the Sophomore year may be admitted to candidacy for Honors. Those wishing to read for Honors who expect to transfer at the close of the Sophomore year should communicate with Dean W. K. Greene, Chairman of the College Council on Honors, not later than April 15.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester-hours necessary for graduation.

Study in a Department Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the

Departmental Committee to the Dean of the College for graduation with Honors.

For brief outlines of the various plans for Departmental Honors the student should see the section, "Departmental Honors Program," among the offerings of each department listed above. Students are also urged to consult the Honors Adviser of the department in which they are primarily interested. A list of these Advisers follows:

Botany: Miss Addoms  
Chemistry: Mr. Vosburgh  
Education: Mr. Holton  
English: Mr. Irving  
French: Mr. Webb  
German: Mr. Vollmer  
Greek: Mr. Peppler

History: Mr. Laprade  
Mathematics: Mr. Elliott  
Philosophy: Mr. McLarty  
Physics: Mr. Hatley  
Psychology: Mr. Zener  
Religion: Mr. Myers  
Zoology: Mr. Gray

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

## GENERAL REGULATIONS

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester-hours; provided that a student whose principal work is in a department containing several sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

## MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
Economics, History, or Political Science*.....	6
English Composition** .....	6
French*** (second college year).....	6-12
German*** (second college year).....	6-12
Mathematics**** .....	6
Natural Science***** .....	16
Religion .....	6

\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\* This requirement is normally met by the completion of English 1 and 2 or 4. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement. If a student fails to pass English 1-2 with a grade of "C" or better, he must complete three additional semester-hours of composition.

\*\*\* All candidates for the degree of Bachelor of Science must complete at least the second year of both college French and college German or their equivalent as determined by examination.

\*\*\*\* This requirement must be satisfied by the completion of Mathematics 7-8, or equivalent.

\*\*\*\*\* All candidates for the degree of Bachelor of Science must complete eight semester-hours in each of two elementary sciences.



Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

### GROUP I

#### GENERAL

Students who choose this group are required to complete the minimum uniform requirements for graduation; forty-eight semester-hours in the Division of Mathematics, Psychology, and Natural Science, of which not less than twenty-four nor more than thirty-two semester-hours may be taken in a major department (the hours prescribed in the major department may not include a course primarily open to Freshmen); and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation.

The student's major work must be in botany, chemistry, forestry, geology, mathematics, physics, psychology, or zoology.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Science degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in a department containing any approved sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

On or before the date announced for the spring registration every Sophomore in the General Group should designate his major department in the division and arrange under the guidance of an instructor in the major department his program of studies for the following year. The student is at liberty to choose for his counsellor any instructor in his major department who gives advanced courses. He should obtain the instructor's written approval of all courses selected in the division before submitting his program to the Dean for final action. In like manner, upperclassmen will check their courses in the division each year with representatives of their major department.

### GROUP II

#### PRE-FORESTRY

This group of studies is designed for students who intend to pursue the study of forestry, particularly as a profession. The first three years

are given largely to fundamental and auxiliary subjects basic to a proper understanding of the more specialized work in technical forestry, which ordinarily requires two additional years to complete. The fourth year of this curriculum is devoted entirely to the first year of technical forestry. Upon the satisfactory completion of this four-year pre-forestry curriculum a student is eligible for a Bachelor of Science degree from Duke University. With this basic preparation it is possible to obtain the professional degree of Master of Forestry in one additional year of work taken in the School of Forestry (see *Bulletin of the School of Forestry*).

In addition to the one hundred and twenty semester-hours required during the eight regular semesters, students in this group must, at the end of their Junior year, take twelve weeks of summer field work as outlined below. They must also present at least two units in either French or German before being admitted to candidacy within the Group and are advised, if possible, to present two units each in French and German. They must also take elementary economics as their required work in the social studies, and are therefore advised to present two high-school units in history.

The following arrangement of courses is recommended for students electing this group:

#### *Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S. H.		S. H.
Botany 1 .....	4	Botany 2 .....	4
Physics 1 .....	4	Physics 2 .....	4
English 1 .....	3	English 2 .....	3
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 14		<hr/> 14

#### *Sophomore Year*

Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 7 .....	3	Mathematics 8.....	3
Religion .....	3	Botany 52 .....	4
Engineering Drawing 1 .....	2	Engineering Drawing 2.....	2
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 15		<hr/> 16

#### *Junior Year*

Botany 151 .....	4	Botany 156 .....	4
Geology 51 .....	4	Economics 52 .....	3
Economics 51.....	3	Foreign Language .....	3
Foreign Language .....	3	Religion .....	3
	<hr/> 14	Elective .....	2
			<hr/> 15

Summer Field Work: 12 weeks to include Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; Forestry S151 (Forest Mensuration), 4 s.h., which are required for further work in forestry.

*Senior Year*

Forestry 211 .....	3	Forestry 212 .....	3
Forestry 251 .....	2	Forestry 224 .....	4
Forestry 253 .....	4	Forestry 232 .....	3
Forestry 259 .....	3	Forestry 252 .....	2
Forestry 261 .....	3	Forestry 264 .....	3
Forestry 273 .....	2		
	<hr/>		<hr/>
	17		15

All elective courses must be selected in consultation with the Forestry Staff.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

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## GENERAL STATEMENT

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester-hours of work of which one hundred and twenty-two must be completed with an average grade of "C." Six semester-hours of electives must be taken in the Departments of Economics or of Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examinations in May or June they are required to attend a three-weeks course in plane surveying given under the direction of the Summer School.

## ADMISSION TO ENGINEERING COURSES

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

At least nine and one-half of the fifteen units required for admission must come from the following:

### *Required Units*

English .....	3 units
A Foreign Language.....	2 units
‡Science .....	1 unit
History .....	1 unit
*Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

### *Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

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‡ Wherever possible, physics or chemistry should be offered for this requirement.

\* Examination required to validate offering.

*Algebra (College Board "B").....	½ unit
Solid Geometry .....	½ unit
*Trigonometry .....	½ unit
†German, French, Latin, Spanish, or Greek.....	1 to 4 units
History or Civics (not the required unit).....	1 to 3 units
Physics, Chemistry, or Biology (not the required unit)...	1 to 2 units

For other elective units, see the list of elective units acceptable for the A.B. degree.

# GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING

## GROUP I

### CIVIL ENGINEERING

#### *Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/> 17		<hr/> 17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

#### *Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics 8 .....	2
Surveying 11 .....	2	Materials 118 .....	3
Highways 15 .....	3	Highways 117 .....	2
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 18		<hr/> 17

#### *Junior Year*

Strength of Materials 107.....	4	Hydraulics 108 .....	4
Curves and Earthwork 113.....	2	Curves and Earthwork 114.....	2
Structures 131 .....	4	Structures 132 .....	4
Engineering Elective .....	3	Engineering Elective .....	3
Elective .....	3	Elective .....	3
	<hr/> 16		<hr/> 16

\* Examination required to validate offering.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

*Senior Year*

Hydraulic Engg. 123.....	4	Hydraulic Engg. 124 .....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
Seminar 137 .....	1	Seminar 138 .....	1
Electives .....	6	Astronomy 112 .....	2
		Electives .....	5
	<hr/> 17		<hr/> 17

## GROUP II

## ELECTRICAL ENGINEERING

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/> 17		<hr/> 17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Electrical Engineering 51 .....	3	Electrical Engineering 52 .....	3
Economics 51 .....	3	Economics 52 .....	3
Steam Engineering 85 .....	2	Physical Education .....	
Physical Education .....			
	<hr/> 18		<hr/> 17

*Junior Year*

Theory of D. C. Circuits 151 .....	3	Theory of A. C. Circuits 152 .....	3
Hydraulics 108 .....	4	Strength of Materials 107 .....	4
Electrical Circuits Lab. 161 .....	1	Electrical Circuits Lab. 162 .....	1
Heat Power Engg. 181 .....	3	Heat Power Engg. 182 .....	3
Differential Equations 131 .....	3	Electrical Measurements 104 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 199 .....	1	Laboratory 200 .....	1
	<hr/> 15		<hr/> 15

*Senior Year*

A. C. Machinery 257 .....	3	A. C. Machinery 258 .....	3
Electric-Pow. Trans. 159 .....	3	Electric-Pow. Stations 158 .....	3
Communication 261 .....	3	Communication 262 .....	4
D. C. Machinery 155 .....	2	Seminar 166 .....	1
D. C. Machinery Lab. 163 .....	1	Electives .....	6
Seminar 165 .....	1		
Electives .....	6		
	<hr/> 19		<hr/> 17



GROUP III

MECHANICAL ENGINEERING

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/> 17		<hr/> 17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Constructive Processes 79 .....	3	Steam Engineering 86 .....	3
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 16		<hr/> 17

*Junior Year*

Hydraulics 185 .....	3	Machine Design 170 .....	3
Strength of Materials 107 .....	4	Internal Comb. Engines 186 .....	3
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
Mechanical Engineering Laboratory 189 .....	1	Mechanical Engineering Laboratory 190 .....	2
Elective .....	3	Elective .....	3
	<hr/> 17		<hr/> 17

*Senior Year*

Machine Design 171 .....	3	Aeronautics 198 .....	3
Power Plants 191 .....	3	Industrial Engineering 192 .....	3
Mech. Engg. Laboratory 193 .....	2	Mech. Engg. Laboratory 194 .....	2
Heating and Ventilation 195 .....	2	Refrigeration 196 .....	2
Seminar 173 .....	1	Seminar 174 .....	1
Electives .....	6	Electives .....	6
	<hr/> 17		<hr/> 17

## COURSES OF INSTRUCTION

*Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester-hours following the description of the course.*

*The designation (w) or (E) indicates that the course is to be given on the West Campus or on the East Campus. The designation E means Engineering; L, Law; SR, School of Religion. When this designation precedes a course number, the course is not approved for graduate credit.*

*Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.*

### COURSES OPEN PRIMARILY TO FRESHMEN

Botany 1-2	History 1-2
Chemistry 1-2	Latin 1-2, 3, 4, 15, 16, 41, 42
Economics 11	Mathematics 1, 2, 3-4, 7, 8, 9-10
Education 4, 8	Physics 1-2
English 1-2	Political Science 21-22
Fine Arts 1-2	Religion 1-2
French 1-2, 3-4	Spanish 1-2, 3-4
German 1-2, 3-4	Zoology 1-2

### BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSOCIATE PROFESSOR KRAMER, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSOR WOLF; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS, OOSTING, AND PERRY; DR. ANDERSON; AND  
ASSISTANTS

1. **General Botany.**—An introduction to the structure and life-processes of seed plants. Laboratory, discussions, and field trips. Three two-hour periods. 4 s.h. (w & E) STAFF

2. **General Botany.**—A survey of the plant kingdom with emphasis on reproduction and an introduction to identification. Three two-hour periods. Prerequisite: Botany 1. 4 s.h. (w & E) STAFF

51. **Growth.**—Experimental studies of the processes involved in growth, and the application of this knowledge to the growth and propagation of plants. Prerequisite: one year of botany. 4 s.h. (E)

ASSISTANT PROFESSOR ADDOMS

52. **Plant Identification.**—Practice in the identification of local plants, especially flowering plants, and a study of the principles and rules underlying plant classification. Laboratory, lectures, and field trips. Prerequisite: one year of botany. 4 s.h. (w) PROFESSOR BLOMQUIST

55. **Morphology and Anatomy of Vascular Plants.**—A comparative study of representative ferns and seed plants, including vegetative and reproductive structures. Prerequisite: one year of botany. 4 s.h. (w)

ASSISTANT PROFESSOR OOSTING

**101. Principles of Heredity.**—The basic principles of heredity and their practical significance. Lectures, three hours; laboratory, two hours; conference (attendance optional), one hour. Laboratory work includes experimental breeding of the fruit fly. May be taken as a lecture course without laboratory. Prerequisite: one course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h. (w)

ASSISTANT PROFESSOR PERRY

**103. General Bacteriology.**—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h. (w) first semester and (E) second semester.

PROFESSOR WOLF

**104. The Structure and Identification of Lower Plants.**—A study of representative examples of the more important groups of algae, fungi, mosses and liverworts, including collection, identification and classification of common forms. Prerequisite: one year of botany. 4 s.h. (w)

DR. ANDERSON

**151. Introductory Plant Physiology.**—The principal physiological processes of plants, including water relations, synthesis and use of foods and growth phenomena. Prerequisite: Botany 1, 2, or equivalent; one year of chemistry recommended. 4 s.h. (w)

ASSOCIATE PROFESSOR KRAMER

**156. Plant Ecology.**—The principal factors affecting plants and plant communities as they exist in different environments. Laboratory, lectures, and field trips. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. (w)

ASSISTANT PROFESSOR OOSTING

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h. (w)

[Not offered in 1939-40]

ASSISTANT PROFESSOR PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Prerequisite: two years of botany. 4 s.h. (w)

DR. ANDERSON

[Not offered in 1939-40]

**204. Advanced Plant Anatomy.**—The structure of vegetative and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. 4 s.h. (w)

ASSISTANT PROFESSOR ADDOMS

**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements; drawing, and photomicrography, botanical photography, and lantern slides. Prerequisite: three semesters of botany. 4 s.h. (w)

DR. ANDERSON

[Offered in the fall]

**221. Structure and Classification of Fungi.**—Prerequisite: two years of botany. 4 s.h. (w)

PROFESSOR WOLF

**225, 226. Special Problems.**—Students with adequate training may do special work in the following fields:

a. Bacteriology, Mycology and Plant Pathology.

PROFESSOR WOLF

b. Cytology.

DR. ANDERSON

c. Ecology.

ASSISTANT PROFESSOR OOSTING

d. Genetics.

ASSISTANT PROFESSOR PERRY

**e. Morphology and Anatomy of Higher Groups.**ASSOCIATE PROFESSOR HARRAR, ASSISTANT  
PROFESSORS ADDOMS AND OOSTING**f. Morphology and Taxonomy of Lower Groups.**

PROFESSOR BLOMQUIST AND DR. ANDERSON

**g. Physiology.**ASSOCIATE PROFESSOR KRAMER AND  
ASSISTANT PROFESSOR ADDOMS**h. Plant Microchemistry.**

ASSISTANT PROFESSOR ADDOMS

**i. Taxonomy of Higher Groups.**

PROFESSOR BLOMQUIST

**252. Advanced Plant Physiology.**—The physico-chemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151, or equivalent; organic chemistry recommended. 4 s.h. (w)

ASSOCIATE PROFESSOR KRAMER

**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52, or equivalent. 4 s.h. (w)

PROFESSOR BLOMQUIST

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Offered in alternate years. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. (w)

ASSISTANT PROFESSOR OOSTING

**FOREST BOTANY**

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1, 2. 4 s.h. (w)

PROFESSOR WOLF

**253. Dendrology.**—The characteristics, identification, and taxonomy of trees and shrubs with special reference to species native to North Carolina and other important forest regions of the United States. Studies of special groups included. Prerequisite: two years of botany. 4 s.h. (w)

ASSOCIATE PROFESSOR HARRAR

Related courses which may be counted toward a major in Botany.

**Zoology 110.**—Introduction to Genetics. 2 s.h. (w)

DR. JOHNSON

**DEPARTMENTAL MAJOR**

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* Twenty-one to twenty-four hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

**DEPARTMENTAL HONORS PROGRAM**

**I. Prerequisites:** Botany 1-2. A year course in each of three other sciences acceptable to the Departmental Committee. Some of these may be taken concurrently with the Honors work.

**II. Honors Work.****a. Botany.**

**1. Scheduled courses.** At least 5 courses (18-20 semester-hours) beyond Botany 1-2.

2. Reading Courses and Problems, chiefly in the Senior year. Nine semester-hours. In addition to scheduled courses, each Honors student will take reading courses in such fields as History of Botany and Theories of Biology; or he may take reading courses in special fields; or he may undertake a special problem; or he may carry on both reading and a problem. This work will count as nine semester-hours and will extend through a year at least. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses, and he must make such a report on his problem.

b. Philosophy—6 semester-hours.

c. Electives in botany or in other departments, subject to the approval of the Departmental Committee.

III. *General Honors Examination*: In the spring semester of the Senior year, each student must pass a general examination on the entire field of his Honors work. The Examining Committee consists of the Departmental Committee and such Advisers as have been concerned with his Honors work. The student must present a written report upon his problem and such written reports upon his reading as may be required, before he is permitted to take the general examination.

## CHEMISTRY

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND  
SAYLOR; DRs. BRADSHER, BROWN, HILL, AND HOBBS; AND  
ASSISTANTS

1-2. **General Inorganic Chemistry**.—Lectures, recitations, and laboratory work on the elementary principles of chemistry and on the occurrence, preparation, properties, and uses of the elements and their compounds. It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h. (w & e)

PROFESSOR WILSON AND DR. HILL WITH PROFESSOR GROSS; ASSISTANT  
PROFESSOR SAYLOR; DRs. BRADSHER, BROWN, AND HOBBS;  
AND ASSISTANTS

61. **Qualitative Analysis**.—A study of the reactions of electrolytes in solution as applied to the qualitative analysis of mixtures of inorganic compounds. One lecture, one recitation, and six laboratory hours. Prerequisites: Chemistry 1-2 and algebra. 4 s.h. (w)

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR;  
DR. HOBBS; AND ASSISTANTS

70. **Quantitative Analysis**.—A study of the theory and technique of inorganic gravimetric and volumetric analysis. One lecture, one recitation, and six laboratory hours. Prerequisite: Chemistry 61. Analytic geometry and college physics are desirable but not required. 4 s.h. (w)

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR;  
DR. HOBBS; AND ASSISTANTS

81. **Introductory Food Chemistry**.—This course is an introduction to certain types of compounds which are necessary for an adequate diet, and includes a brief study of the fundamental organic compounds which are necessary for an understanding of the elementary study of foodstuffs. Prerequisites: Chemistry 1-2 or equivalent. Two lectures and three laboratory hours. 3 s.h. (w)

PROFESSOR WILSON AND DR. BROWN



**142. Nutrition.**—A study of food materials, their composition, origin and values; the demands of the human body for growth, maintenance, and activity; dietary standards and the problem of feeding a family. Prerequisite: course 81 or its equivalent. Two recitations and three laboratory hours. 3 s.h. (w) PROFESSOR WILSON, DR. BROWN AND ASSISTANT

**151-152. Organic Chemistry.**—An introduction to the study of the compounds of carbon. Both the aliphatic and the aromatic series are dealt with, and the lectures are illustrated by selected laboratory experiments. Two lectures, one recitation, and three laboratory hours. Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. 8 s.h. (w)

ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSOR HAUSER;  
DRS. BRADSHAW AND BROWN; AND ASSISTANTS

**153-154. Intermediate Chemistry Laboratory.**—Special laboratory exercises of a more advanced nature than given in courses 70 and 151-152. Required of candidates for Honors in chemistry and open to others with special permission of the Department. 2 or 4 s.h. (w)

PROFESSOR VOSBURGH AND OTHER MEMBERS OF THE STAFF

**173-174. Honors Seminar.**—One hour a week discussion based on assigned reading. Required of all candidates for Honors in chemistry in both Junior and Senior years. 2 s.h. (w) PROFESSOR VOSBURGH

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h. (w) PROFESSOR VOSBURGH AND DR. HILL  
[Not offered in 1939-40]

**231-232. Advanced Quantitative Analysis.**—The theory and technique of the quantitative analysis of complex materials, including quantitative organic analysis and the use of physical measuring instruments. One lecture and six laboratory hours. Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. 6 s.h. (w)

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

**241. Physiological Chemistry.**—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h. (w) PROFESSOR WILSON AND ASSISTANT

**242. Metabolism.**—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h. (w) PROFESSOR WILSON AND ASSISTANT

**253-254. Advanced Organic Chemistry.**—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and 6 laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h. (w)

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR  
HAUSER, AND DR. BROWN



**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h. (w)

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses and other topics. One lecture. 1 s.h. (w)

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW

**273-274. Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h. (w)

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BRADSHER, BROWN, HILL AND HOBBS

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h. (w)

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRS. BRADSHER, BROWN, HILL AND HOBBS

#### DEPARTMENTAL MAJORS

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.

B. For the degree of B.S.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152; 261-262 and 3 to 6 s.h. of chemistry to be elected with the approval of the Department.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in chemistry the student must have completed the following courses:

Chemistry 61-70, Physics 1-2 or 51-52, Mathematics 7-8 (or equivalent), and either Mathematics 99 or Botany 1-2 or Zoology 1-2 or other courses in the Science Division satisfactory to the Department.

Candidates for Honors shall complete the following program of work:

Chemistry 151-152, 153-154, 173-174, 261-262 and 275-276; Physics (advanced) 6 s.h.; Mathematics through integral calculus; and 6 to 8 s.h. of course work in botany, geology or zoology, satisfactory to the Department, if not offered for admission to the Honors Group.

Chemistry 173-174 is a seminar for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics under the direction of a member of the Staff.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the Staff. Selection of the problem for investigation is made by the student from a limited number of topics, with the approval of the Department. The object of the course is to acquaint the student with research aims and methods. If possible, an investigation

of limited scope will be completed. Total credit for tutorial courses is 10 s.h.

A written report must be prepared on the research undertaken in Chemistry 275-276. A general examination in chemistry will be given at the end of each year.

## ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON, CHAIRMAN; PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DE VYVER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS HOOVER, SPENGLER, AND VON BECKERATH;  
 ASSISTANT PROFESSORS BLACK, EITEMAN, LANDON, LEMERT,  
 RATCHFORD, SHIELDS, SMITH, AND SPRINGER; DRs. BERRY,  
 DELAPLANE, KEECH, AND WELFLING; MESSRS. BURTT  
 (PART-TIME), HARGREAVES (PART-TIME), HAVENS,  
 O'LEARY (PART-TIME), AND OLIVER

The Department offers instruction in general economics, business administration, and accounting. The general course in economics affords a survey of the whole field of economic thought and lays the foundation for specialized study in various branches of the subject. Advanced courses are offered in theoretical and applied economics.

A special group of studies is provided for candidates for the Bachelor of Arts degree who are definitely looking forward to a business career at the conclusion of their college course. While this group is mainly composed of liberal rather than technical studies, it gives opportunity in the Junior and Senior years for specialized study in such subjects as money and banking, public and corporation finance, investments, railroad and water transportation, economic geography, marketing, insurance, industrial management, accounting, and business statistics.

## ECONOMICS

**51-52. Principles of Economics.**—This course must be taken by all students planning to elect further courses in economics and business administration. 6 s.h. (W & E)

PROFESSOR SPENGLER; ASSISTANT PROFESSORS LANDON AND SMITH;  
 DRs. BERRY, DELAPLANE, AND WELFLING; MESSRS. BURTT,  
 HARGREAVES, O'LEARY, AND OLIVER

**103. Transportation.**—Essential features, problems, and competitive positions of rail, highway, water, and air transportation. Special attention is devoted to valuation, rates, and regulation as applied to railway transportation. Collateral reading and the preparation of papers are required. 3 s.h. (w)

ASSISTANT PROFESSOR LANDON

**107. Conservation.**—A study of the extent and distribution of our natural resources and their service in regional and national development. Emphasis will be placed upon both the natural and human factors involved in the genesis of current problems. Term reports dealing with problems of special interest to those participating will be considered. 3 s.h. (w)

ASSISTANT PROFESSOR LEMERT

**138. Business Statistics.**—A course in elementary statistics designed principally for students of economics and business administration. The material is also of interest to those specializing in engineering, forestry, political science, sociology, and other subjects. The course includes a study of statistical methods and their application. Very little algebra and no higher mathematics are required. Offered both semesters. 3 s.h. (w)

ASSISTANT PROFESSOR SMITH; DRs. BERRY AND WELFLING

[Note: The attention of students who are taking, or who propose to take, courses 143, 144, or 158 is called to Mathematics 71, "Mathematics of Investment." This course is recommended as an elective for Sophomores or Juniors.]

**143. Corporation Finance.**—Principles and problems in the financial organization of corporations; the study of corporate securities, the management of capital, the distribution of earnings; industrial combinations; insolvency and reorganization. Required of Juniors in the Business Administration Group. Offered both semesters. **3 s.h. (w)**

Special sections of Corporation Finance will be offered for students who have had Economics 57.

ASSISTANT PROFESSORS EITEMAN AND SMITH, AND MR. OLIVER

**144. Investments.**—A study of the role which the security markets play in American economic life. Attention is devoted to the various types of securities, to the mechanics of their purchase and sale, to the factors which affect and determine their market prices, and to the relationship of stock speculation to the banking system and to general prosperity. Prerequisite: Economics 57-58 and 143. **3 s.h. (w)**

ASSISTANT PROFESSOR EITEMAN

**169. Economics of Consumption.**—Economic problems of the family. Factors determining choice; commercial and legal standards for consumers' goods; consumer credit and co-operation; income and standards of living. **3 s.h. (E)**

ASSISTANT PROFESSOR SMITH

**187. Public Finance.**—This course deals with public expenditures, public revenues, public debts, and financial administration. **3 s.h. (w)**

ASSISTANT PROFESSOR RATCHFORD

**203-204. Money, Banking, and Credit.**—After a preliminary study of monetary history and theory, together with an account of the development of credit instruments, there follows a more extended presentation of the theory and practice of banking. The first section of this course (*M.W.F., third period*) is limited to twenty-five graduates and Seniors of superior standing. **6 s.h. (w)**

PROFESSOR GLASSON, ASSISTANT PROFESSOR RATCHFORD,  
DRS. DELAPLANE AND WELFLING, MR. OLIVER

**217. Business Cycles.**—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. **3 s.h. (w)**

PROFESSOR SPENGLER

(Admission only with the written consent of the instructor.)

**218. Population Problems and the Standard of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth-rates. **3 s.h. (w)**

PROFESSOR SPENGLER

(Admission only with the written consent of the instructor.)

**230. Public Debts in the United States.**—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and

business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h. (w)

ASSISTANT PROFESSOR RATCHFORD

**231. The Economic History of Modern Europe.**—A study of the economic development of Europe since the sixteenth century, treating such topics as the guilds, mercantilism, money, banking, crises, the commercial revolution, and the industrial revolution. The rise of modern capitalism and the historical backgrounds of present economic problems will be emphasized. 3 s.h. (w)

PROFESSOR HAMILTON

**232. The Economic History of the United States.**—A study of the agricultural, industrial, commercial, and financial progress of the United States from colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h. (w)

PROFESSOR HAMILTON

**233. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or equivalent. 3 s.h. (w)

[Not offered in 1939-40]

ASSISTANT PROFESSOR RATCHFORD

**234. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. Prerequisite: Economics 187 or equivalent. 3 s.h. (w)

[Not offered in 1939-40]

ASSISTANT PROFESSOR RATCHFORD

**237-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Business Statistics 138 or consent of the instructor. 6 s.h. (w)

ASSISTANT PROFESSOR SPRINGER

**239. Prices.**—A theoretical study of the forces governing the commodity price level and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorder or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany, the world-wide collapse of prices after 1929, and the behavior of prices in recession and recovery. 3 s.h. (w)

PROFESSOR HAMILTON

**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h. (w)

PROFESSOR SPENGLER

**245-246. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised. 6 s.h. (w)

PROFESSOR VON BECKERATH



**253. Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. 3 s.h. (w) ASSISTANT PROFESSOR DE VYVER

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, and to interference in labor disputes. Prerequisite: Economics 253, or with the consent of the instructor. 3 s.h. (w) ASSISTANT PROFESSOR DE VYVER

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. 3 s.h. (w)  
[Not offered in 1939-40] ASSISTANT PROFESSOR DE VYVER

**265. International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. 3 s.h. (w)  
PROFESSOR VON BECKERATH

**266. International Finance.**—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, maldistribution of gold, exchange control, and related problems. 3 s.h. (w) PROFESSOR HAMILTON

**268. Competitive versus Monopolistic Enterprise.**—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution; (8) Short discussion of different types of compromise solutions both in the governmental and the economic field. 3 s.h. (w) PROFESSOR VON BECKERATH

## BUSINESS ADMINISTRATION

### A. ACCOUNTANCY

**57-58. Principles of Accounting.**—Elementary principles of single proprietorship, partnership, and corporation accounting. Supervised laboratory periods will be assigned. Section 8 (*T.T.S., third period*) is limited to twenty-five students and is designed primarily for pre-legal, engineering, and general group students. Business Administration students should not register for this section. 6 s.h. (w) ASSISTANT PROFESSORS BLACK, DE VYVER, EITEMAN, AND SHIELDS; DR. KEECH; MR. HAVENS

**171-172. Advanced Accounting.**—Advanced accounting theory and practice applied to the managerial problems of valuation and operation in corporations, consolidations, mergers, and liquidations. Open to students who have completed Accounting 57-58. 6 s.h. (w) ASSISTANT PROFESSOR SHIELDS

**173-174. Auditing, Theory and Practice.**—This course prepares the manager to investigate the operation of his own business, the prospective investor to determine the value of the proposition, the student to practice the public accounting profession. The first semester deals with detail and balance sheet audits and the second semester with special investigations. Problems, working papers, and reports. Students are admitted to the course by permission of the instructor. *For Seniors.* 6 s.h. (w) ASSISTANT PROFESSOR BLACK

**175-176. C. P. A. Review.**—Thorough practice in classroom to prepare candidates for the Certified Public Accountant examination. The object is to train students to apply accounting principles and to work in classroom under substantially the same conditions as in the examination room. Practical accounting problems, auditing analysis, and theory of accounts. Students are admitted to the course by permission of the instructor. *For Seniors.* 6 s.h. (w)

ASSISTANT PROFESSOR BLACK

**177. Income-Tax Accounting.**—A study of federal and state income-tax laws; problems in the preparation of tax returns and claims for refund. *For Seniors.* 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

**178. Modern Accounting Systems.**—Systems and the forms for recording data of basic manufacturing industries, mercantile establishments, building and loan associations, and municipalities. Special attention will be paid to budgetary accounting. *For Seniors.* 3 s.h. (w)

ASSISTANT PROFESSOR SHIELDS

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 171-172 are ordinarily prerequisites for this course. 6 s.h. (w)

ASSISTANT PROFESSOR BLACK

[Not offered in 1939-40]

#### B. COMMERCE AND INDUSTRY

**11. Economic Geography.**—A course in regional economic geography embracing the study of the world's major geographic regions, their present and potential production of food and raw materials for manufacture, and the relationships between these factors and the development of manufacturing industries, cities, and commerce. Required of Freshmen in the Business Administration Group. Either semester. 3 s.h. (w & e)

ASSISTANT PROFESSOR LEMERT

**105. Industrial Management.**—A study of the organization and management of industry, with emphasis upon business application of the principles developed. Problems of the interrelation of functions operating in the several fields of management, such as production control, personnel, and the forecasting of business conditions. 3 s.h. (w)

DR. KEECH

**115. Economic Geography.**—*This course is not open to students who have received credit for Econ. 11 (formerly B).* Required of all students in Teaching Group, Class B. The study of the interrelation of human activities and environmental elements. The discussion embraces location, maps and their interpretation, the major climatic regions, seasonal influences, weather, lands and their uses, soils and minerals, bodies of water, plants, animals, and the works of man as environmental factors. 3 s.h. (e)

ASSISTANT PROFESSOR LEMERT

**116. Economic Geography and Industrial Organization.**—*This course is not open to students who have received credit for Econ. 11 (formerly B).* Required of all students in Teaching Group, Class B. A study of the economic resources of the world: the products of the agricultural and manufacturing industries; trade routes and trade centers; the balance of trade and its relation to industrial development; and the influence of geographic factors on the commercial policy of nations. Prerequisite: course 115. 3 s.h. (e)

ASSISTANT PROFESSOR LEMERT

**118. Economic Geography of the South Atlantic States.**—A study of the agricultural, commercial, and industrial development, with special emphasis placed upon the development of manufacturing in the southern Appalachian Piedmont. This course is designed to serve not only teachers, but all others



interested in the development of this region. Prerequisites: Economics 11, Economic Geography 115, or with consent of the instructor. 3 s.h. (w)

ASSISTANT PROFESSOR LEMERT

**158. Insurance.**—The development and basic principles of insurance. This course covers such topics as business uses, policy contracts, costs, and regulation of insurance. Life and fire insurance are emphasized. 3 s.h. (w)

DR. KEECH

**168. Marketing.**—The fundamental principles of marketing. The topics covered include marketing functions, organization, and methods; financing marketing activities; price principles and practices; risk and speculation; co-operative marketing; regulation; and means for improvement. Collateral reading and the preparation of papers are required. 3 s.h. (w)

ASSISTANT PROFESSOR LANDON

**181-182. Business Law.**—The fundamental principles of law as applied to common business transactions. The topics presented are: contracts, agency, bailments, sales, negotiable instruments, partnership, corporations, and bankruptcy. Required of Seniors in the Business Administration Group. 6 s.h. (w)

ASSISTANT PROFESSOR SPRINGER

**184. Commercial Law for Accountants.**—A review and summation of commercial law principles as they apply to accounting theory and practice. Emphasis will be placed upon the commercial law sections of the Certified Public Accountant examinations. Students are admitted to the course by permission of the instructor. *For Seniors.* 3 s.h. (w)

ASSISTANT PROFESSOR BLACK

Attention is also called to Political Science 172, Government and Agriculture, and Political Science 164, Government Control of Railroads, which may appropriately be elected as related work.

*Note.* Freshmen, Advanced Freshmen, and Sophomores are not admitted to any courses in the Department numbered above 100.

#### DEPARTMENTAL MAJOR

*Prerequisites:* All students who desire to major in the Department of Economics are required to take as a prerequisite courses 51-52, Principles of Economics. Ordinarily this prerequisite work should be taken in the Sophomore year.

*Major Requirements:* Students who major in Economics are required to take twenty-four semester-hours of work in Economics in the Junior and Senior years. At least twelve semester-hours of this work must be chosen from Senior-Graduate courses offered in Economics. The remainder of the twenty-four hours may be chosen from courses offered in Economics for Juniors and Seniors. Students may elect six hours of Accounting and six hours in Commerce and Industry toward the completion of this requirement. The selection of courses should be approved by an appointed representative of the Departmental Faculty.

*Cognate Courses:* Six semester-hours of work from the following courses may be selected in partial fulfillment of the Senior-Graduate course requirement. These courses, however, may not be counted as part of the required twenty-four semester-hours of work in Economics.

Forestry 278. Economics of Forestry.

History 219-220. The History of the European Proletariat.

Political Science 207. American Constitutional Law and Theory.

Political Science 209. State and Local Government in the United States.

Political Science 271. Socio-Politics and the Capitalistic System.

Sociology 219. Urban Sociology.

Sociology 220. Rural Sociology.

Sociology 227. Emigration and Immigration.

#### HONORS WORK

The Departments of Economics, Political Science, and Philosophy form an Honors group within the Division of the Social Sciences. For the details of this program the student should consult pages 55-57.

Honors readings in economics are as follows:

*History of Economic Thought*: A consideration of the principal economic writers showing the development of modern economic thought. DR. WELFLING

*Social Economics*: The problems of social adjustment to modern economic institutions. ASSISTANT PROFESSOR DE VYVER

*American Economic Organization*: The development and operation of the institutions of modern American capitalism. ASSISTANT PROFESSOR DE VYVER

#### EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; MESSRS. EICHER (PART-TIME) AND WATSON; MRS. SMITH; AND ASSISTANTS

Courses in the Department of Education are designed for two groups of students: (1) students with teaching experience or others who have definitely chosen teaching as their life-work, and (2) students who desire to study the school as an outstanding social institution.

Students who do not expect to teach but merely desire an understanding of the school as part of a liberal education are advised to elect such courses as 4, 8, 54, 104, and 105 for their introductory work in the Department and then to elect further work in accordance with their special interests. Students who expect to engage in the various phases of teaching should plan their courses in accordance with the general regulations for Groups V and VI as outlined in this catalogue. Students preparing for college teaching should elect courses in the history and philosophy of education and in educational psychology.

**1. Orientation Course in Study and Study Habits.**—A course for Freshmen whose high-school and other records indicate the need of help in working out a satisfactory method of study. The factors of study, the use of text-books, note-taking from lectures and parallel readings, and applications of the factors of study to the daily problems of the student are among the matters considered. *Either semester.* 3 s.h. (w & e)

ASSISTANT PROFESSOR EASLEY AND MR. WATSON

**4. Introductory Course in History of Education.**—A special section of course 54, for Sophomores and for Freshmen who have had course 8. 3 s.h. (e)

PROFESSOR HOLTON AND MR. EICHER

**8. The Learning Process.**—A course in elementary educational psychology, required of all Freshmen and Sophomores entering Group V. *Either semester.* 3 s.h. (w & e)

PROFESSORS BROWNELL AND CHILDS; ASSISTANT PROFESSOR EASLEY, MR. WATSON, AND MR. EICHER

**54. Introductory Course in History of Education.**—A study of the types of educational systems and institutions evolved in Western Europe and the United States as an introduction to current educational problems. 3 s.h. (w)

PROFESSORS HOLTON AND CARR

**58. The Learning Process.**—A special section of course 8, intended for Juniors. *Either semester.* 3 s.h. (E) *first semester and (W) second semester.*  
ASSISTANT PROFESSOR EASLEY

**68. Mental Hygiene of the School Child.**—A study of personality factors as related to the adjustment and success of the school child; the foundations of motivation; typical problems of maladjustment; social heredity and its educational implications; variations in intelligence. 3 s.h. (E)  
ASSISTANT PROFESSOR EASLEY

**83. Current Trends in American Public School Organization.**—A study of current controversies and criticisms bearing on the organization and administration of the public schools, recent developments in the organization of schools, and the theories underlying these developments. 3 s.h. (E) PROFESSOR PROCTOR

**101. Introduction to Teaching.**—A survey of the work of the teacher based upon a general theory of the learning and teaching process. Preliminary discussion of the qualifications and training of teachers and the nature and aims of education. Development of a theory of the curriculum; discussion of the nature of subject matter as related to pupil activity; modern classroom procedure in teaching, including an introduction to educational measurements. Old number 61. 3 s.h. (E) PROFESSOR CARR

**103. School Organization and Administration for the Classroom Teacher.**—*Either semester.* 3 s.h. (W) *first semester and (E) second semester.*  
PROFESSOR PROCTOR

**104. History of Education in the United States.**—A special section of course 214, intended primarily for Juniors. *First semester.* 3 s.h. (E)  
ASSOCIATE PROFESSOR SCATES

**105. Introduction to Educational Sociology.**—A study of social forces, processes, and values as affecting education, and the interaction of school and community. 3 s.h. (E) PROFESSOR CHILDS

**112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.**—A study of materials and methods in the primary school subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the primary school branches. A minimum of thirty laboratory periods of observation and practice-teaching. Prerequisite: course 101. *For Seniors only.* 4 s.h. (E) PROFESSOR CARR  
[Not offered in 1939-40 unless as many as eight students enroll.]

**A. Integrated Art in the Public School.**—This course is required of students preparing to teach in elementary schools (see "Group of Studies for the Degree of Bachelor of Arts," VIB). *For Juniors and Seniors. First semester.* (3 points professional credit.) (E) MRS. MASON

**B. Industrial Art in the Public School.**—This course is required of students preparing to teach in elementary schools (see "Group of Studies for the Degree of Bachelor of Arts," VIB). *For Juniors and Seniors. Second semester.* (3 points professional credit.) (E) MRS. MASON

**C. Public-School Music.**—This course is required of students preparing to teach in elementary schools (see "Group of Studies for the Degree of Bachelor of Arts," VIB). *For Juniors and Seniors. Second semester.* (3 points professional credit.) (E) MR. BRUINSMAN  
[Not offered in 1939-40]

**115-116. Secondary Education: Principles and Practice.**—The study of the nature, scope, and methods of secondary education, emphasizing fundamentals of the teaching process and exemplifying theory by practice. Sixty hours of

observation work and thirty hours of supervised practice teaching required. The course includes courses 106 and 116 as offered prior to 1935 and is not open for enrollment to students who have had either of those courses. Students preparing to teach in junior high schools are permitted to concentrate in the junior high school field. *Students must arrange their schedule to permit four hours of observation, conference, and practice teaching weekly. Since practice-teaching facilities are limited, students with superior record will be given preference in the practice teaching. No student who has not passed the work of the Junior year at Duke University with an average of at least one and one-half quality-points will be permitted to do practice work. Students who have the required average in quality-points must before February 1 pass with grade of "B" or better, examination in the subject they expect to teach, based upon course of study of the school in which they expect to do their practice teaching. Before entrance into practice-teaching students must complete thirty hours of observation under supervision. Their first five hours of practice must be satisfactory to the instructor directing observation and to the teacher of the class taught before they can continue the thirty hours of practice teaching required by the course. For Seniors only. 6 or 8 s.h. Section one (for teachers of English and foreign language). (E) Section two (for teachers of other subjects). (W)*

PROFESSOR CHILDS AND ASSISTANTS

**118. Educational Implications of Genetic Psychology.**—A course tracing the development of the individual through the stages of growth and learning, with emphasis upon early and later childhood; the development of such behavior patterns as play, language, etc.; the process of socialization; and similar material of especial significance to teachers in the elementary schools. *First semester. 3 s.h. (W)*

PROFESSOR BROWNELL

**122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.**—A study of materials and methods in the grammar grade subjects with special reference to reading, language, number, and the social studies; introduction to the psychology of the grammar grade branches. A minimum of thirty laboratory periods of observation and practice teaching. Prerequisite: course 101. *For Seniors only. 4 s.h. (E)*

PROFESSOR CARR

**131. Observation and Practice-Teaching.**—Open to Seniors who are enrolled in course 101. Separate work for primary and grammar grade teachers. *1 s.h. (E)*

PROFESSOR CARR

**132. Materials and Methods in Health Education.**—Identical with Health Education 132. *3 s.h. (W)*

ASSISTANT PROFESSOR AYCOCK

**136. The Teaching of High-School English.**—Identical with English 142. *For Seniors only. 3 s.h. (W)*

ASSISTANT PROFESSOR JORDAN

**142. Children's Literature.**—Students enrolled will be allowed to specialize in literature of either the primary or grammar grades. *First semester. 3 s.h. (E)*

PROFESSOR CARR

**155. The Teaching of Secondary School Latin.**—Identical with Latin 109. *For Seniors only. 3 s.h. (W)*

ASSISTANT PROFESSOR GATES

**158. Educational Measurements.**—A special section of 258, intended for undergraduates. Principles and technique involved in measurements in education. *First semester. 3 s.h. (E)*

ASSOCIATE PROFESSOR SCATES

**170. The Social and Economic Position of Women.**—A course in vocational guidance for women counting as a general elective, but not as part of either a major or minor in Education or towards a North Carolina State teacher's certificate. The purpose of the course is to give the historical background of the changing social and economic position of women, the contributions made by outstanding women, and the vocational opportunities open to women. *2 s.h. (E)*

MRS. SMITH



176. **Materials and Methods in High-School Science.**—Discussion, based upon lectures and collateral reading, of such topics as aims, tests for values, the curriculum, classroom procedure, course and lesson planning in secondary-school science. Prerequisite: at least eighteen hours of science in college. *For Seniors only.* 3 s.h. (w) PROFESSOR CHILDS

[Not offered in 1939-40]

200. **Introduction to the Philosophy of Education.**—3 s.h. (w)

[Not offered in 1939-40]

PROFESSOR HOLTON

203. **Principles of School Administration.**—Prerequisite: six semester-hours of courses 103 and 58 or their equivalent. 3 s.h. (w)

PROFESSOR PROCTOR

205. **Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. *Second semester.* 3 s.h. (w)

[Not offered in 1939-40]

PROFESSOR CHILDS

206. **Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of secondary school subjects, emphasizing problems of curriculum-making. Prerequisite: general sociology or approved work in education, including course 105. 3 s.h. (w)

PROFESSOR CHILDS

207. **Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E)

PROFESSOR CARR

208. **Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h. (E)

ASSISTANT PROFESSOR EASLEY

209. **Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teacher or administrator to interpret and use the results of scientific investigations in education. 3 s.h. (w)

ASSISTANT PROFESSOR EASLEY

212. **Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common-school subjects. 3 s.h. (w)

PROFESSOR CARR

[Not offered in 1939-40]

214. **History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h. (w)

PROFESSOR HOLTON

216. **Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h. (w)

PROFESSOR CHILDS

[Not offered in 1939-40]

217. **Advanced Educational Psychology.**—A systematic survey of the field of educational psychology, required of all majors in that field. 3 s.h. (E)

ASSISTANT PROFESSOR EASLEY

218. **Educational Implications of Genetic Psychology.**—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h. (E)

PROFESSOR BROWNELL

219. **Experimental Education.**—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. 3 s.h. (E)

PROFESSOR BROWNELL

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary school. *First semester.* 3 s.h. (w)  
[Not offered in 1939-40] PROFESSOR CARR

**225. The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (w)  
ASSISTANT PROFESSOR MANCHESTER

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. (w) ASSISTANT PROFESSOR EASLEY

**228. The Psychology of Learning: Theoretical and Experimental.**—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of the psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR EASLEY

**232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E) PROFESSOR CARR

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h. (w)  
PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h. (w)  
PROFESSOR PROCTOR

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. 3 s.h. (E)  
PROFESSOR CARR

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h.  
[Not offered in 1939-40] PROFESSOR HOLTON

**246. The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h. (E) PROFESSOR RANKIN  
[Not offered unless enrollment justifies.]

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. 3 s.h. (w) PROFESSOR BROWNELL



**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h. PROFESSOR HOLTON

[Not offered in 1939-40]

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and federal aid. *First semester.* 3 s.h. (w) PROFESSOR PROCTOR

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester-hours in the Department, including a course in educational psychology. *First semester.* 3 s.h. (E) ASSOCIATE PROFESSOR SCATES

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h. (w) PROFESSOR HOLTON  
[Not offered in 1939-40]

**266. The Teaching of High-School French.**—Identical with French 218. 3 s.h. (w) PROFESSOR WEBB

**294. Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. *First semester.* 3 s.h. (w) PROFESSOR CARR

#### DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester-hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester-hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester-hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester-hours may be of courses numbered below 100.

#### DEPARTMENTAL HONORS PROGRAM

I. *Prerequisites:* Completion of the Sophomore year in Group I, V, or VI of the "Groups of Studies for the Degree of Bachelor of Arts" with average of one and one-half quality-points per semester-hour, and an average of "B" or better in some one department in which the student has been enrolled within his first two years.

II. (a) Completion of the regular departmental major in the Department of Education as defined above (see Departmental Major). (b) Completion of fifteen semester-hours of work listed for Juniors and Seniors in not more than two departments approved by the Honors Adviser as related work. (c) Completion in the Junior year of three semester-hours of reading in the works of educational theorists, and study of current developments of their theories. This work will include selected reading in the history and theory of education under the direction of the Honors Adviser and should give the

student an historical perspective of the development of educational theory and the origin of conflicting educational philosophies of the present. At the end of the Junior year the student will have written examination upon the Honors reading. (d) Completion in the Senior year of six semester-hours of reading in some field of education under the direction of the Honors Adviser. The fields from which the student may choose, subject to the approval of the Departmental Committee, are the following: Elementary Education, Experimental Education and Educational Psychology, History and Philosophy of Education, Public School Administration, Secondary Education, and Educational Sociology. This work will include the preparation of an essay showing an accurate and broad knowledge of what has been done and is in process of being done in the chosen field. (It is probable that reading courses will not be offered in all fields every year. Every candidate for Honors, therefore, should at the close of his Junior year confer with the Departmental Committee and make known his wishes as to which reading courses will be organized and offered in his Senior year.)

At the close of the Senior year the candidate will be given a general examination by the Departmental Committee and such other persons as it may designate, including the member in charge of the field in which the candidate is reading. This examination will cover the work the candidate has done in his Honors work and the related work of his Junior and Senior years.

### ENGINEERING\*

PROFESSOR HALL, DIRECTOR; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING;  
PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR,  
CHAIRMAN MECHANICAL ENGINEERING; ASSISTANT PROFESSORS MEIER  
AND REED; MESSRS. CHAPMAN, PIGAGE, RANSON, AND WILLIAMS

### GENERAL ENGINEERING

1-2. **Engineering Drawing.**—The study and practice of mechanical drawing of elementary machine parts with special reference to such topics as dimensioning, material specifications and elements of intersections, projections and developments. Six laboratory hours. 4 s.h. (E) MR. PIGAGE

5. **Descriptive Geometry.**—Problems relating to point, line, plane, and solid relationships in space. One recitation, three laboratory hours. 2 s.h. (E) MR. PIGAGE

7. **Statics.**—Concurrent forces, parallel forces, non-concurrent and non-parallel forces, centroids, friction, moment of inertia. Prerequisites: courses 1 and 2, Mathematics 9 and 10. 3 s.h. (E) STAFF

8. **Kinetics.**—Translation, rotation, work, energy, and momentum. Prerequisites: course 7, and Mathematics 59. 2 s.h. (E) STAFF

107. **Strength of Materials.**—Elastic bodies under stress; flexure of simple, overhanging, fixed, and continuous beams; columns; combined stresses; etc. Three recitations, three laboratory hours. Prerequisite: course 7. 4 s.h. (E) STAFF

108. **Hydraulics.**—Hydrostatics; flow of water through orifices, weirs, pipes, and open channels; general principles of water wheels and turbines. Prerequisite: course 7. 4 s.h. (E) Either semester. STAFF

\* Division; three departments.

## CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; MR. WILLIAMS

**S10. Plane Surveying.**—Use of instruments; transit, stadia, compass and plane table surveying; simple triangulation; determination of meridian by observation on Polaris; differential and profile leveling; setting grade stakes; calculation of bearings, latitudes, and departures; areas by planimeter; methods of plotting; survey and plot of sections of the campus by stadia, and transit and tape. Eight hours a day, three weeks, Summer School. Prerequisites: course 1, and Trigonometry. 3 s.h. (E)

See the *Bulletin of the Summer School*.

**11. Higher Surveying.**—Care and adjustment of instruments; topographical surveying; surveys and resurveys; laying out and division of land; public land system; further calculations, omitted measurements, areas by double longitude; quantities from profiles and cross sections. Prerequisite: course 10. 2 s.h. (E)

MR. WILLIAMS

**S110. Plane Surveying.**—Similar to course 10 but especially arranged for students in forestry. Eight hours a day, three weeks, Summer School. Prerequisites: Engineering Drawing and Trigonometry. 3 s.h.

See the *Bulletin of the Summer School*.

**111. Higher Surveying.**—For students in forestry. In addition to the ground covered in course 11, the field work includes a more thorough drill in the use of the Beaman stadia arc and the topographic abney level and trailer tape while more attention is given to the preparation of finished maps in the office work. Eight hours a day, three weeks, Summer School. Prerequisite: course 10 or 110. 3 s.h.

See the *Bulletin of the Summer School*.

**112. Field Astronomy.**—Determination of latitude, longitude, time, and azimuth by observation on sun and stars; use of precise transit, solar attachment, and sextant. Prerequisite: course 11. 2 s.h. (E)

PROFESSOR BIRD

**113-114. Curves and Earthwork—Highways.**—Thorough drill in the calculation and laying out of simple, compound, and easement curves, widening of curves, vertical curves, setting slope stakes, ordinary earthwork computations, and mass diagrams. Prerequisite: course 10. 4 s.h. (E)

MR. WILLIAMS

**15. Highway Engineering.**—Location, construction, and maintenance of roads and pavements; dust prevention; road economics. 3 s.h. (E)

MR. WILLIAMS

**117. Highway Engineering.**—Standard tests of stone, gravel, and bituminous materials. Prerequisite: course 15. 2 s.h. (E)

MR. WILLIAMS

**118. Materials of Engineering.**—Study and testing of materials other than those taken up in course 117. 2 or 3 s.h. (E)

MR. WILLIAMS

**119-120. Railroad Engineering.**—Differences between highway and railway practice affecting curves and earthwork. A. R. E. A. transition curve, frogs, switches, and crossings. Preliminary and location survey of a railway of sufficient length to secure familiarity with methods of actual practice. Paper location made with estimate of cost. Construction and maintenance of track and trackwork, economics, and operating conditions affecting location. Prerequisite: course 113-114. 5 s.h. (E)

PROFESSOR BIRD AND MR. WILLIAMS

**123-124. Hydraulic Engineering.**—

(a) Hydrology—Factors affecting precipitation, evaporation from land and water surfaces; relation of precipitation to run-off; estimating run-off; floods and flood flows. Stream gauging.

(b) **Public Water Supply**—Quantity and quality of water required, hydraulics of wells, reservoirs, works for purification and distribution of water. Standard laboratory tests for chemical and bacteriological examination of water.

(c) **Sewerage**—Sewerage systems, rainfall and storm water flow, sizes of storm and sanitary sewers, sewage disposal. Standard laboratory tests of sewage. Prerequisite: course 108. 8 s.h. (E) PROFESSOR HALL

**131. Steel Structures—Stresses.**—Roofs, parallel chord bridges under all types of loads, inclined top chord bridges, including subdivided panels, wind bracing. Prerequisite: course 7. 4 s.h. (E) PROFESSOR BIRD

**132. Steel Structures—Design.**—Built beams, plate girders, tension members, compression members, tension and compression members, end posts, stringers, floor beams, pins, plates, etc. Drafting. Prerequisites: courses 107 and 131. 4 s.h. (E) PROFESSOR BIRD

**133. Reinforced Concrete.**—Theory and design of reinforced concrete beams, slabs, columns. Prerequisite: course 107. 3 s.h. (E) PROFESSOR BIRD

**134. Masonry Structures.**—Ordinary foundations, dams, retaining walls, arches, piers, abutments. Prerequisites: courses 107 and 133. 3 s.h. (E) PROFESSOR BIRD

**137-138. Seminar.**—Students are required to make reports and to talk on current engineering literature or on such other topics as may be assigned. 2 s.h. (E) STAFF

**143-144. Projects in Civil Engineering.**—This course may be assigned by the Head of the Department to certain Seniors who have shown an aptitude for research in one distinct field of civil engineering, in which case it may be substituted for certain general civil engineering courses. 3-6 s.h. (E) Either semester. PROFESSORS BIRD AND HALL

**E.240. Indeterminate Structures.**—Introductory course dealing with the application of theory of least work, deflection, and rotation to indeterminate stresses. Problems are solved analytically, graphically, and by deformer. Prerequisites: course 131 and ability to read French or German. 3 s.h. (E) PROFESSOR BIRD

## ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MR. RANSON

**51-52. Survey of Electrical Engineering.**—A general survey course covering the entire field of electrical engineering, intended to give the electrical engineering student a general preview of the subject as a whole. Required of Sophomores. Prerequisites: Freshmen mathematics and concurrent physics. 6 s.h. (E) ASSISTANT PROFESSOR MEIER

**151. Theory of Direct Current Circuits.**—A course consisting of lectures and recitations covering the fundamental theory of direct current circuits. Two-hour class, two-hour computation. Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. 3 s.h. (E) MR. RANSON

**152. Theory of Alternating Current Circuits.**—This course covers the algebra of vectors and complex quantities, non-sinusoidal waves, polyphase circuits, harmonics, and unbalanced three-phase circuits. Two-hour class, two-hour computation. Prerequisites: course 151, Mathematics 131. 3 s.h. (E) ASSISTANT PROFESSOR MEIER



**153-154. Principles of Electrical Engineering.**—An elementary course consisting of lectures, recitations, and laboratory covering the principles of direct and alternating current machinery, and their applications, designed especially for students in civil and mechanical engineering. This course includes one three-hour period in the electrical machinery laboratory per week. Prerequisite: Physics 57-58. 6 s.h. (E) MR. RANSON

**155. Direct Current Machinery.**—A study of the principles which underlie the design and operation of all types of direct current machinery. Prerequisites: courses 151, 161-162. 2 s.h. (E) ASSISTANT PROFESSOR MEIER

**156. Electric Transportation.**—Construction, operation, and uses of electric equipment in air, land, and sea transportation. Elective. Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. (E) MR. RANSON

**158. Electric-Power Stations.**—A course of lectures and recitations pertaining to the design, construction, and operation of electric power stations, both steam and hydraulic. Consideration of prime movers; generating machinery; switchboards; instruments, relays, and protective devices; operation and management; visits to neighboring plants. Prerequisites: courses 151, 152, and 187-188. 3 s.h. (E) MR. RANSON

**159. Electric-Power Transmission.**—A course of lectures and recitations on the factors involved in the transmission of electrical energy over long distances and the use of hyperbolic functions in the solution of transmission line problems. Two-hour class, two-hour computation. Prerequisites: courses 151, 152. 3 s.h. (E) PROFESSOR SEELEY

**161-162. Electrical Circuits Laboratory.**—This course provides experimental verification of the theory developed in courses 151 and 152, and should be taken concurrently. Three hours per week. 2 s.h. (E) PROFESSOR SEELEY

**163. Direct Current Machinery Laboratory.**—A study of the technique of testing direct current machines and a thorough analysis of their performance. Concurrent with course 155. 1 s.h. (E) ASSISTANT PROFESSOR MEIER

**165-166. Electrical Engineering Seminar.**—Seniors are required to present reports and dissertations on material appearing in current engineering literature. Juniors may participate, but without credit. Scheduled at night. 2 s.h. (E) STAFF

**257-258. Alternating Current Machinery.**—This course covers the theory underlying the design, construction, and operation of synchronous generators and motors, transformers, converters, single-phase and polyphase motors of all types. Two-hour class, three-hour laboratory. Prerequisites: courses 152, 155. 6 s.h. (E) ASSISTANT PROFESSOR MEIER

**261. Communication Engineering, Audio Frequency.**—An advanced course on the principles underlying voice-frequency communication covering nature of speech and sound, wave propagation over metallic circuits, filters; resistance, inductance, capacitance at audio frequencies; transmission characteristics of communication equipment. Two-hour class, three-hour laboratory. Prerequisites: courses 151, 152, Mathematics 131. 3 s.h. (E) PROFESSOR SEELEY

**262. Communication Engineering, Radio Frequency.**—An advanced course on the principles underlying radio communication, covering vacuum tubes, vacuum-tube circuits, oscillating and coupled circuits, antennae, radiation, transmission and reception. Three-hour class, three-hour laboratory. Prerequisite: course 261. 4 s.h. (E) PROFESSOR SEELEY

263-264. **Mathematical Analysis of Electrical Circuits.**—An advanced course on the detailed mathematical analysis of certain circuits used in electrical engineering, with an introduction to the use of operational calculus as applied to electrical circuits. Elective. Prerequisites: courses 151, 152 and Mathematics 131. 6 s.h. (E) PROFESSOR SEELEY

E.265-266. **Projects in Electrical Engineering.**—Project work may be undertaken only by those who show special aptitude, or who have had previous experience on some problem. The consent of the Chairman of the Department must be obtained before registering. Seniors only. Elective credit. 3-6 s.h. (E) PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSOR REED; MESSRS. CHAPMAN AND FIGAGE

79. **Constructive Processes.**—Recitation course covering fundamentals of metallography and general processes in foundry, forge, and machine shop. Trips to neighboring shops are included. Prerequisite: Chemistry 2. Open only to mechanical engineering students. 3 s.h. (E)

MR. CHAPMAN AND MR. FIGAGE

82. **Kinetics-Mechanism.**—Motions of particles; Newton's laws of motion and application to motions of rigid bodies, work, energy, impulse and momentum. Linkages, belts, cams, gears and trains of mechanism. Three lectures and three laboratory hours. Prerequisites: G. E. 2, G. E. 7, Mathematics 59. Corequisite: Mathematics 60. 4 s.h. (E)

ASSISTANT PROFESSOR REED AND MR. CHAPMAN

85. **Steam Engineering.**—Elementary principles of boilers, engines, turbines, and auxiliaries; properties of steam, fuels, and combustion. For electrical engineering students. Prerequisite: Physics 18. 2 s.h. (E)

MR. CHAPMAN

86. **Steam Engineering.**—Elementary principles of boilers, steam engines, turbines, internal combustion engines, and auxiliaries; properties of steam, fuels, and combustion. Laboratory demonstrations of principles. Two recitations, three laboratory hours. Prerequisite: Physics 18. 3 s.h. (E)

MR. CHAPMAN AND MR. FIGAGE

170-171. **Machine Design.**—Applications of principles of strength of materials and constructive processes to design of riveted and welded joints, pressure vessels and machine elements, followed by design of at least one complete machine. Two lectures, three laboratory hours. Prerequisites: G. E. 107, M. E. 79, M. E. 82. 6 s.h. (E)

ASSISTANT PROFESSOR REED

173-174. **Seminar.**—Students are required to make reports and to talk on current engineering literature or on such topics as may be assigned. 2 s.h. (E)

STAFF

175-176. **Projects in Mechanical Engineering.**—This course may be assigned by the Chairman of the Department to certain Seniors who express a desire for such work and who have shown aptitude for research in one distinct field of mechanical engineering. Either semester. 3 s.h. (E)

PROFESSOR WILBUR AND STAFF

181-182. **Heat Power Engineering.**—A short course in engineering thermodynamics followed by applications to power plant design. For civil and electrical engineering students. Prerequisites: M. E. 85, Mathematics 60. 6 s.h. (E)

ASSISTANT PROFESSOR REED



**185. Hydraulics.**—Fluid statics; kinematics of fluid flow; application of fluid dynamics theory to flow through orifices, weirs, and pipes; general principles of centrifugal pumps and turbines. Prerequisite: course 82. 3 s.h. (E)

MR. CHAPMAN

**186. Internal Combustion Engines.**—Principle cycles; fuels and fuel mixtures; effect of real mixtures on theoretical cycles; combustion; combustion and fuel injection. Thermodynamic analysis of engine performance. Modern developments in the internal combustion engine. Three recitations. Prerequisite: M. E. 187. 3 s.h. (E)

PROFESSOR WILBUR

**187-188. Engineering Thermodynamics.**—A study of thermodynamic properties and processes of gases, vapor and gas-vapor mixtures; cycles; efficiencies and performance of steam power plant equipment. Three recitations. Prerequisite: course 86 and Mathematics 60. 6 s.h. (E)

PROFESSOR WILBUR

**189-190. Junior Mechanical Engineering Laboratory.**—Open only to mechanical engineering students. Principles of steam and fuel calorimeters; gas analysis; oil testing; measurement of steam, air, and water flow; elementary steam engine and boiler tests. Three laboratory hours first semester, six hours second semester. Prerequisites: course 86 and course 187-188 concurrently. 3 s.h. (E)

MR. CHAPMAN

**191. Power Plant Calculations.**—Study of economic and engineering factors in developing steam power plants. Consideration of the performance of boilers, prime movers, condensers and various auxiliaries in various groupings as they affect the plant heat balance. Three recitations. Prerequisites: M. E. 187-188 or 181-182. 3 s.h. (E)

PROFESSOR WILBUR

**192. Industrial Engineering.**—A study of the industrial growth and present tendencies of productive industries as concerns the engineer. Specific topics treated are: plant location; organization; production and cost controls, wage payment, etc. Seniors only. Three recitations. 3 s.h. (E)

MR. PIGAGE

**193-194. Senior Mechanical Engineering Laboratory.**—Advanced engineering tests of performance and economy of steam engines, turbines, boilers and power plant accessories, internal combustion engines, heating and refrigerating equipment; heat balances and heat transfer. Six laboratory hours. Prerequisite: M. E. 190. Corequisites: M. E. 191, M. E. 195, M. E. 196. 4 s.h. (E)

ASSISTANT PROFESSOR REED

**195. Heating and Air Conditioning.**—Fundamentals of heating and air conditioning, determination of heat losses and gains, design of steam, hot water and warm air heating and air conditioning systems for homes, offices and industrial buildings. Prerequisites: M. E. 188 or M. E. 182. 2 s.h. (E)

ASSISTANT PROFESSOR REED

**196. Refrigeration.**—Fundamentals of refrigerating systems and design, and applications in industry. Prerequisites: M. E. 188 or M. E. 182, and M. E. 190 or M. E. 200. 2 s.h. (E)

ASSISTANT PROFESSOR REED

**198. Aeronautics.**—Aerodynamic principles applied to airfoils, propellers, and the complete airplane; dynamic loading and performance calculations. Prerequisites: courses 171 and 185. 3 s.h. (E)

MR. CHAPMAN

**199-200. Junior Mechanical Engineering Laboratory.**—Open only to electrical and civil engineering students who have elected M. E. 181-182. Work covers use of various engineering measurement apparatus, flow of air, steam and water, with economy tests on steam engines and turbines, boiler and internal combustion engines. Three laboratory hours. Prerequisite: M. E. 85. (E)

PROFESSOR WILBUR

## ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSOR GREENE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR PATTON, SUPERVISOR OF FRESHMAN STUDIES; PROFESSORS BAUM, GILBERT, GOHDES, HUBBELL, IRVING, AND WHITE; ASSOCIATE PROFESSORS BLACKBURN AND MITCHELL; ASSISTANT PROFESSORS ALLEN, ANDERSON, HERRING, JORDAN, SANDERS, SUGDEN, VANCE, WARD, WEST, AND WHITE; DR. CARPENTER (PART-TIME), JOHNSON, AND POTEAT; MESSRS. FITZGERALD, HARWELL, LEWIS, AND MARTIN

## COMPOSITION

**1-2. English Composition.**—All Freshmen are required to take course 1 and course 2.

Students in courses 1 and 2 who fail to earn an average grade of "C" on the work of both semesters and at least a grade of "C" on the work of the spring term are required to do the work of English 53 during their Sophomore year. Those who do not earn a grade of "D" during the first semester are required to repeat during the spring course 1; if they earn a grade of "D" or more at the end of the spring semester, they receive credit for the first half-year of work, and during their Sophomore year they are required to do the work of English 2. Students whose grades for both semesters fall below "D" must repeat the entire course during their second year. **6 s.h. (E & W)**

PROFESSOR IRVING; ASSOCIATE PROFESSORS BLACKBURN AND PATTON; ASSISTANT PROFESSORS ALLEN, ANDERSON, SANDERS, SUGDEN, VANCE, WARD, AND WHITE; DR. CARPENTER, JOHNSON, AND POTEAT; MESSRS. FITZGERALD, HARWELL, MARTIN, AND STROVEN

**53. English Composition.**—A second course in composition. *Offered again in the second semester.* **3 s.h. (W & E)** ASSISTANT PROFESSOR JORDAN

**54. Composition.**—This is a practical course in composition for those who desire a greater mastery of, and facility in, the use of the language than they get from English 1-2 and 53. **3 s.h. (W)**

ASSISTANT PROFESSOR JORDAN

**65-66. Approaches to Imaginative Writing.**—This course stresses the essentials of imaginative writing with the aim particularly to develop skill in description and characterization in writing prose and skill in the writing of poetry. The work includes also the analysis of selected models. The number of students in this course is limited, and all must have the consent of the instructor. Open to Sophomores and in special cases to Freshmen. **6 s.h. (W)**

ASSISTANT PROFESSOR SANDERS

**101-102. Composition.**—This work is planned for those who have done good work in the required courses in composition. Students who wish to take this course must have made a grade of "B" or better in English 1-2 or they must have credit for English 1-2 and English 53. The number of students is limited, and all must have the consent of the instructor. Open to men and women. **6 s.h. (W)**

ASSOCIATE PROFESSOR MITCHELL

**103-104. Composition.**—Instruction in this course is concerned largely with descriptive and narrative writing. Only students who are able to write with facility and correctness are expected to enroll; they must have the consent of the instructor. Open to women and men. **6 s.h. (E)**

ASSOCIATE PROFESSOR BLACKBURN

107-108. **Journalism.**—The first semester is devoted to news-writing and copy-reading; the second semester, to the writing of feature articles and editorials.  
ASSISTANT PROFESSOR SUGDEN

133-134. **Verse-Writing.**—See Description of this course on page 92.  
PROFESSOR WHITE

DRAMATICS AND SPEECH

105-106. **Play-Writing.**—The work of this course is concerned chiefly with the technique of the one-act play though study is made also of the longer forms. Worthy plays written by students are presented by the members of the play-production course. Open also to Sophomores approved by the Dean. 6 s.h. (w)  
ASSISTANT PROFESSOR WEST

119-120. **History of the Theater.**—A study of the development of the theater, of methods of production, and of representative plays of the various periods from the time of the early Greeks to the present day constitutes the work of this course. Open also to Sophomores approved by the Dean. 6 s.h. (w)  
ASSISTANT PROFESSOR WEST

121-122. **Play-Production.**—This is a course dealing with the theory and practice of producing plays. The work includes make-up, lighting, scene-design and painting, costume, directing, and stage-management. Plays are studied with a view to producing them. There is practice-work both in the laboratory and in the theater. Open also to Sophomores approved by the Dean. 6 s.h. (w)  
ASSISTANT PROFESSOR WEST

139-140. **The Speaking Voice.**—This course gives training in placement, pitch, range, and diction for use in professional work and in daily conversation. Open to all undergraduates with the approval of the Dean. 6 s.h. (w)  
ASSISTANT PROFESSOR WEST

FOR SOPHOMORES, JUNIORS, AND SENIORS

151. **Speech.**—A course in the fundamentals of public speaking with emphasis upon the effective presentation of ideas. 3 s.h. (w & e)  
ASSISTANT PROFESSOR HERRING AND MR. LEWIS

152. **Argumentation.**—A course dealing with the principles of argumentation and debating with special emphasis upon brief-making and practice-speaking. Public questions are studied as parallel work. Prerequisite: English 151. 3 s.h. (w)  
ASSISTANT PROFESSOR HERRING AND MR. LEWIS

ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

55-56. **Representative Writers.**—6 s.h.  
PROFESSOR IRVING, ASSOCIATE PROFESSORS BLACKBURN AND PATTON, ASSISTANT PROFESSORS SANDERS, SUGDEN, VANCE, WARD, AND DR. POTEAT

63-64. **A Survey of English Poetry.**—6 s.h. (w & e)  
ASSOCIATE PROFESSOR MITCHELL

123-124. **Shakespeare.**—6 s.h. (w) PROFESSOR BROWN

125-126. **English Literature, 1789-1832.**—6 s.h. (w & e)  
PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON,  
AND ASSISTANT PROFESSOR WHITE

127-128. **English Prose Literature, 1832-1900.**—6 s.h. (w)  
PROFESSOR GREENE

129-130. **The History of the Novel in England.**—6 s.h. (w & e)  
ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE

131. The Drama, 1770-1832.—3 s.h.  
[Not offered in 1939-40]

PROFESSOR HUBBELL

133-134. Verse-Writing.—This work is offered each year for not less than three or more than six students, who must make to the instructor written application accompanied by some original verse. Open to Seniors, Juniors, and in exceptional cases to Sophomores. 6 s.h. (w)

PROFESSOR WHITE

137-138. American Literature.—6 s.h.

PROFESSORS HUBBELL AND GOHDES AND ASSISTANT PROFESSOR ANDERSON

142. Materials and Methods in High-School English.—*Second semester.*

ASSISTANT PROFESSOR JORDAN

143-144. English Literature, 1550-1625.—This course consists of a study of the most important non-dramatic literature from 1550 to 1625. 6 s.h. (w)  
[Not offered in 1939-40]

PROFESSOR GREENE

145-146. English Poetry, 1832-1900.—6 s.h. ASSISTANT PROFESSOR SANDERS  
[Not offered in 1939-40]

147-148. Contemporary Poetry.—Open also to Sophomores recommended by the Dean. 6 s.h. (w)

ASSISTANT PROFESSOR ANDERSON

149-150. English Literature, 1625-1700.—6 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR WARD

153-154. Comparative Literature.—6 s.h.

[Not offered in 1939-40]

PROFESSOR IRVING

155-156. Contemporary Drama.—Open to Junior and Senior women and men and to those Sophomores recommended by the Dean. 6 s.h. (E)

[Not offered in 1939-40]

ASSISTANT PROFESSOR WHITE

157-158. Contemporary Novel.—Open also to Sophomores recommended by the Dean. 6 s.h. (E)

ASSISTANT PROFESSORS ANDERSON AND WHITE

159-160. English Literary Biography.—6 s.h.

[Not offered in 1939-40]

PROFESSOR WHITE

161-162. The History of the English Language and Historical English Grammar.—This work is strongly recommended for all students who plan to teach English.

PROFESSORS BROWN AND GREENE

201-202. Anglo-Saxon.—The first half of the year is given to the reading of prose and to a study of the language; the second half, to the reading of *Beowulf*. 6 s.h.

PROFESSOR BROWN

203-204. Chaucer.—The work consists of the reading and study of the principal *Canterbury Tales*, the *Troilus*, the minor poems, and some of the translations. Students prepare a reading report and a term-paper. 6 s.h.

PROFESSOR BAUM

207-208. English Literature, 1400-1550.—6 s.h.

[Not offered in 1939-40]

PROFESSOR BAUM

209-210. Non-Dramatic Literature, 1625-1700.—6 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR WARD

211. Non-Dramatic Literature of the Early Seventeenth Century.—3 s.h.

ASSISTANT PROFESSOR ALLEN

**213-214. Folk-Lore and Folk-Songs.**—The first half of the work consists of an extensive study of the field of folk-lore; the second, of the ballad and other folk-songs. 6 s.h. PROFESSOR BROWN

[In 1939-40 this course is not offered, but the material of the course is offered as seminar 349-350a.]

**215-216. Elizabethan Drama.**—6 s.h.

PROFESSOR GILBERT AND ASSISTANT PROFESSOR ALLEN

**217. Spenser.**—In this course the students study the works of Spenser, giving especial attention to the major poems. 3 s.h. PROFESSOR GILBERT

[Not offered in 1939-40]

**218. Milton.**—A detailed study of Milton's prose and poetry with emphasis upon the major poems constitutes the work of this course. There are frequent written reports and a term-paper. 3 s.h. PROFESSOR GILBERT

[Not offered in 1939-40]

**219-220. English Prose and Poetry of the Eighteenth Century.**—The work of the first semester falls within the age of Pope; that of the second, within the age of Johnson. There are term-papers. 6 s.h. PROFESSOR IRVING

[In 1939-40 this course is not offered, but the material of the course is offered as seminar 349-350g.]

**221. Restoration and Eighteenth-Century Drama.**—3 s.h.

ASSISTANT PROFESSOR WARD

[In 1939-40 this course is offered in the second semester.]

**225-226. Studies in Victorian Literature.**—6 s.h.

PROFESSOR BAUM

**227-228. Literary Criticism.**—This work consists of a study of the history of literary criticism from Aristotle to the present. There are oral and written reports and term-papers. 6 s.h. PROFESSOR GILBERT

[Not offered in 1939-40]

**229-230. American Literature, 1800-1870.**—This work consists of a survey of the principal writers of the period. There are two oral reports and a term-paper each semester. Seniors must have credit for English 137-138 or its equivalent. 6 s.h. PROFESSORS HUBBELL AND GOHDES AND ASSISTANT PROFESSOR ANDERSON

**231-232. Special Studies in American Authors.**—6 s.h. PROFESSOR GOHDES

**233-234. American Literature since 1870.**—The work is a survey of the period, including the works of a few of the most important living authors. One term-paper each semester. 6 s.h. PROFESSOR GOHDES

**239-240. Shakespeare Problems.**—Students are expected to have read the principal plays before entering the course. 6 s.h. PROFESSOR BROWN

[Not offered in 1939-40]

**269-270. Southern Literature and Culture.**—6 s.h.

PROFESSOR HUBBELL

#### DEPARTMENTAL MAJOR

*Prerequisites:* English 1 and 2.

*Requirements for the Major:* A major in English consists of twenty-four semester-hours of credit distributed as follows: *six* hours must be earned in English 55-56 or in English 63-64 and *eighteen* hours credit in courses in English and American literature of the 100 or 200 group.



## FINE ARTS

ASSISTANT PROFESSOR McDONALD, CHAIRMAN; ASSISTANT PROFESSOR HALL,  
DIRECTOR OF UNDERGRADUATE STUDIES; DR. SUNDERLAND,  
MISS HAMLIN

The purpose of the courses in the Department is so to train the student's eye by directed study of characteristic examples of the historic styles that he may apply his own standards of judgment to less familiar works either of the past or of the present. The advanced courses cover only the post-classical field to avoid duplication of courses in other departments. Course 1-2 or 51-52 is a prerequisite for all courses except as hereafter noted.

**1-2. History of Art.**—The survey course for Freshmen is designed to help the new student in relating the different manifestations of art in each period with the civilization which produced them. It therefore treats the historical background, architecture, sculpture, painting, and the minor arts of each style as a unit, emphasizing Greek sculpture, French medieval architecture, and Italian Renaissance painting. 6 s.h. (E)

1, ASSISTANT PROFESSOR McDONALD; 2, DR. SUNDERLAND

**51-52. History of Art.**—The survey course for upperclassmen treats each art as a unit, relating it to its background and its companion arts wherever possible, but leaving many of the problems of correlation to the initiative of the student. The development of architecture is considered in course 51, the development of sculpture and painting in course 52. Courses 51 and 52 are both offered each semester. Credit for a single semester will be given only to Seniors electing it during their last semester. The courses are not open to Freshmen or to students who have had course 1-2. 6 s.h. (W & E)

51, ASSISTANT PROFESSOR HALL; 52, ASSISTANT PROFESSOR McDONALD

**53-54. Theory of Representation and Design.**—A consideration of the general theory of tone relations, of the different modes of representation, and of the theory of design. The course aims to give a thorough understanding of the principles governing the art of drawing and painting as practiced in the past and at the present time. It will be open only to students who are enrolled in or have already completed a full course in the Department. One lecture or conference and two laboratory hours. 4 s.h. (E) DR. SUNDERLAND

**92. Oriental Art.**—A study of the art of the Islamic world, India, China, and Japan as it reflects the life and philosophy of the major periods. Open to Seniors, Juniors, and Sophomores, without prerequisite. 3 s.h. (E)

ASSISTANT PROFESSOR McDONALD

**93. American Painting and Sculpture.**—A study of the slow development of a cultural tradition in the United States in the wake of political and social progress; of the prolonged influence of the European schools; and of the growing independence of contemporary artists. Open to Seniors, Juniors, and Sophomores, without prerequisite. 3 s.h.

DR. SUNDERLAND

[Not offered in 1939-40]

**101. Introduction to Medieval Art.**—A study of the development of structure and decoration from the pre-Romanesque sources through the twelfth century, with emphasis on the tendencies in Romanesque architecture and sculpture which underlie the logical development of Gothic art. Approved Seniors and Juniors admitted without prerequisite. 3 s.h.

ASSISTANT PROFESSOR McDONALD

**102. Development of Gothic Art.**—An outline of the structural and decorative problems solved by the builders of the Middle Ages. This course emphasizes the architecture, sculpture, and stained glass of the great cathedrals, and touches upon the mural painting, panel painting, and manuscript illumination of the period. 3 s.h. (E)

ASSISTANT PROFESSOR McDONALD

[Not offered in 1939-40]



**103. Renaissance and Baroque Architecture: Italy.**—A survey of architecture in Italy during the fifteenth, sixteenth, and seventeenth centuries, studied through the works of individual architects and their schools. 3 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR HALL

**104. Renaissance and Baroque Architecture: Spain and the North.**—An inquiry into the spread of Italian Renaissance influence in architecture throughout Spain, France, Germany, the Low Countries, and England in the sixteenth and seventeenth centuries. 3 s.h. (E)

[Not offered in 1939-40]

ASSISTANT PROFESSOR HALL

**105. European Architecture since 1700.**—A study of the changes in style, plan and material arising in the eighteenth century as the result of awakened interest in the past, political freedom of thought, and scientific invention; the parallel development of classicism and romanticism, the succeeding phases of eclecticism, and the rise of functionalism. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

**106. Architecture of the Americas.**—An historical and critical survey of building in the Western Hemisphere. The work of the pre-European cultures and of the European colonies is briefly studied; emphasis is placed on the influence of political and social conditions and of newly discovered materials on the architecture of the United States from the Early Republican period to the present. 3 s.h. (E)

ASSISTANT PROFESSOR HALL

**107. Renaissance Painting and Sculpture: Italy.**—A study of the rise and development of Italian painting and sculpture from the fourteenth through the sixteenth centuries. Approved Seniors and Juniors admitted without prerequisite. 3 s.h. (E)

DR. SUNDERLAND

**108. Renaissance Painting and Sculpture: The North.**—A study of Flemish and German painting and sculpture of the fifteenth and sixteenth centuries beginning with the Van Eycks and culminating in the work of Breughel and Holbein. 3 s.h. (E)

[Not offered in 1939-40]

DR. SUNDERLAND

**109. Seventeenth-Century Painting.**—An analysis of the character and tendencies of seventeenth-century painting in Italy, Spain, and the Netherlands. Approved Seniors and Juniors admitted without prerequisite. 3 s.h. (E)

DR. SUNDERLAND

**110. Painting and Sculpture since 1700.**—An investigation of impressionism in painting from its origins in the eighteenth century to its culmination in the work of Renoir, Cézanne, and Van Gogh. Approved Seniors and Juniors admitted without prerequisite. 3 s.h. (E)

DR. SUNDERLAND

**120. English Architecture.**—A study of the influences on architecture of the invasions and the conquest; the Renaissance under the Tudors and Stuarts; academism and the baroque; classicism and romanticism; eclecticism and functionalism. Open to approved Seniors and Juniors.

ASSISTANT PROFESSOR HALL

#### COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

Greek 141-142. Greek Art.

Greek 247-248. Greek Archaeology.

Latin 115. Architecture of Ancient Rome.

Latin 215. Introduction to Roman Art and Archaeology.

Latin 216. Topography and Monuments of Ancient Rome.

Philosophy 201-202. The Philosophy of Art.

Philosophy 213-214. History of Aesthetics.

Psychology 202. Psychology of Aesthetics.

## DEPARTMENTAL MAJOR

*Prerequisites:* 1-2 or 51-52.

*Major Requirements:* 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

## FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN; PROFESSORS BEAL, SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS HARRAR, MAUGHAN, AND THOMSON; ASSISTANT PROFESSOR COILE

Forestry 52 is open to all Sophomore, Junior and Senior students in Duke University and is intended to afford a better understanding of trees and forests and of the economic and social importance of forests and forestry. The other courses are designed as part of a program of training in technical forestry leading to the professional graduate degree of Master of Forestry (see *Bulletin of the School of Forestry*). However, with the consent of the instructor in charge, certain of the forestry courses may be elected by students in other curricula provided they have had adequate preparation.

Students without a Bachelor's degree who are preparing for work in forestry as a profession should take the courses outlined in the pre-forestry curriculum.

**52. Principles of Forestry.**—An introduction to forestry emphasizing the economic and social importance of forests and their influence on stream flow, water supply, soil, and erosion; brief studies of individual trees and the life history of forests and their reproduction, treatment, and protection; principal forest regions and timber trees of United States; a brief history of forestry in America and present-day forestry agencies. Work consists of lectures, assigned readings, and reports. Open to Sophomores, Juniors, and Seniors. 2 s.h. (w)

ASSOCIATE PROFESSOR THOMSON

**S150. Forest Surveying.**—Application of plane surveying to forest problems; practice in making boundary and topographic surveys of forested tracts, using both intensive and extensive methods. Work includes use of transit, level, traverse board, topographic abney and slope tape, and aneroid barometer. *Prerequisites:* Civil Engineering S110, Plane Surveying, or equivalent. *Five weeks, eight hours a day, beginning June 26.* 5 s.h. (w)

ASSOCIATE PROFESSOR MAUGHAN

**S151. Forest Mensuration.**—Field studies in methods of measuring content and growth of trees and forest stands; practice in timber estimating, log scaling, use of mensurational instruments, and collection of basic data. *Four weeks, eight hours a day, beginning August 1.* 4 s.h. (w)

PROFESSOR SCHUMACHER

**211. Harvesting Forest Products.**—Methods of harvesting and transporting to utilization plants all products obtained from forests, including saw logs, pulpwood, poles, ties, stave and veneer bolts, naval stores, distillation wood, and other commercial commodities, with emphasis on comparative cost determinations and the application of methods best adapted to managed forests in important forest regions of North America. 3 s.h. (w)

PROFESSOR WACKERMAN

**212. Forest Products Industries.**—Preparation, manufacture, and use of tree products for all purposes including lumber, paper, naval stores, veneer, cooperage, boxes, distillation, and other specialized products with emphasis on methods of manufacturing and kinds of wood required for various commodities. Inspection of typical forest operations and forest products manufacturing plants in the South during two weeks of spring semester. *Prerequisite:* Forestry 211 or equivalent. 3 s.h. (w)

PROFESSOR WACKERMAN

**224. Forest Pathology.**—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. (w)  
PROFESSOR WOLF

**232. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h. (w)  
PROFESSOR BEAL

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h. (w) PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h. (w)  
PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 4 s.h. (w)  
ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h. (w)  
PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h. (w)  
ASSOCIATE PROFESSOR HARRAR

**260. Timber Mechanics.**—Comprehensive study of mechanical properties of wood and factors affecting its strength; strength-moisture relationships; standard methods of timber testing and application of strength data in development of working stresses; use of graphic statics in analysis of stress in wooden structures. Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. (w)  
ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. (w)  
ASSISTANT PROFESSOR COIL

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. (w)  
PROFESSOR KORSTIAN

**266. Forest Seeding and Planting.**—Place of artificial regeneration in practice of forestry; reforestation surveys and plans; collection, extraction, cleaning, testing, and storage of forest tree seeds; direct seeding; nursery practice; forest planting. 2 s.h. (w)  
PROFESSOR KORSTIAN

**273. Forest Protection.**—Fundamental principles of forest protection; protection against atmospheric agencies, injurious plants, insects, domestic animals, and wild life; causes of forest fires and their prevention; suppression activities; fire suppression; fire control costs and standards; fire plans. 2 s.h. (w) ASSOCIATE PROFESSOR THOMSON

**276. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h. (w) ASSOCIATE PROFESSOR THOMSON

**279. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h. (w) ASSOCIATE PROFESSOR THOMSON

**284. Forest Improvements.**—Principles involved in the location and design of improvements required for administration of forest properties and forest operations, such as roads, trails, bridges, lookout towers, and telephone lines; effect of forest operations upon expenditures for improvements; cost analysis and planning for minimum cost. Prerequisite: Forestry S150 or equivalent. 3 s.h. (w) ASSOCIATE PROFESSOR MAUGHAN

## GEOLOGY

ASSOCIATE PROFESSOR BERRY

**51. General Geology.**—This course is designed to give a general view of the surface features of the earth, their origin, structure, and materials. Illustrative materials are studied in the laboratory. Excursions are made to neighboring points where the principles of the science are studied in the field. Three one-hour lectures or recitations and one three-hour laboratory. 4 s.h. (w) ASSOCIATE PROFESSOR BERRY

**52. General Geology.**—This course is designed to give some knowledge of the chief events of the earth's history. Excursions will be made to suitable neighboring localities. Three one-hour lectures or recitations and one three-hour laboratory. Prerequisite: Geology 51. 4 s.h. (w) ASSOCIATE PROFESSOR BERRY

**101-102. Mineralogy.**—This course is devoted to a study of the fundamentals of crystallography and the crystal groups, using crystal models and crystallized minerals. Followed by the systematic study of about 175 important minerals. Determinative work includes exercises on sight recognition, identification by blowpipe, and other physical and chemical tests. Excursions will be made to neighboring mineral localities. Three two-hour periods. Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h. (w) ASSOCIATE PROFESSOR BERRY

**151. Economic Geology.**—Study of world distribution, geologic occurrence, and uses of important mineral deposits. Three two-hour periods. Prerequisite: Geology 101-102. 4 s.h. (w) ASSOCIATE PROFESSOR BERRY

**152. Introductory Paleontology.**—Systematic study of invertebrate paleontology, dealing mainly with generic characters of the fossil invertebrates and their use in identifying and correlating geologic formations. Three two-hour periods. Prerequisites: Geology 51, 52 and Zoology 1. 4 s.h. (w) ASSOCIATE PROFESSOR BERRY



## DEPARTMENTAL MAJOR

*Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.

*Major Requirements:* Geology 51, 52, 101-102, 151, 152.

## GERMAN LANGUAGE AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSORS KRUMMEL AND WANNAMAKER; ASSISTANT PROFESSOR  
MAXWELL; DR. SHEARS; MR. YOUNG

Freshmen entering college with two units of German take German 3-4. Freshmen entering with three units must pass a qualifying examination in second year college German if they desire to enter third year college German and complete their language requirement in one year.

Sophomores, who have passed German 1-2, take German 3-4. Those who have passed German 3-4, take German 51-52. Students in the pre-medical group who have attained in their Freshman year an average of at least "C" in German 3-4 may go directly into German 107-108 (Scientific German) in their Sophomore year. Sophomores who passed German 51-52 in their Freshman year may take any course in the 100 group. This special permission is not granted to those who took German 3-4 as Freshmen.

Juniors, who desire to begin the study of German, may receive full advanced course credit by taking German 101-102. Those who have passed German 1-2, may take either German 3-4 or 103-104. Those who have passed German 3-4 or 51-52 may take any course in the 100 group (except 101-102, 103-104). Those who have passed a 100 course, take any course in the 100 or 200 groups.

Seniors, who desire to take one year of German, may receive full advanced course credit by passing German 101-102. Those who have passed German 1-2 or 101-102, take German 103-104. Those who have passed second year College German here or elsewhere take any course in the 100 group. Seniors majoring in German and those who have passed third year College German are expected to take courses in the 200 group.

Although courses in the 100 and 200 groups are regarded as full-year courses, one semester may be taken for 3 semester-hours credit with the consent of the instructor. The 100 courses (except 101-102, 103-104) are third-year German courses for Juniors and Seniors only. (See note on Sophomores above.)

## 1-2. Elementary German.—6 s.h. (E &amp; W)

ASSISTANT PROFESSOR WILSON AND STAFF

## 3-4. Intermediate German.—6 s.h. (E &amp; W)

PROFESSOR KRUMMEL AND STAFF

51-52. German Civilization.—(Third year college German for Freshmen and Sophomores only.) A transition course between Intermediate German and the literary and scientific courses of the 100 and 200 groups. 6 s.h. (W)

## 101-102. Elementary German.—For Juniors and Seniors only. 6 s.h. (W)

## 103-104. Intermediate German.—For Juniors and Seniors only. 6 s.h. (W)

107. Scientific German.—The German language as used in the various contemporary sciences. 3 s.h. (W)

PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

108. Advanced Scientific and Medical German.—Advanced scientific German with special emphasis on medical German. 3 s.h. (W)

PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL

109-110. **German Prose Fiction.**—Origin and development of the German novel with special emphasis on the nineteenth century. 6 s.h.  
[Not offered in 1939-40] PROFESSOR KRUMMEL

111-112. **Introduction to the Classic Drama.**—Selected dramas from Lessing, Goethe and Schiller. 6 s.h. ASSISTANT PROFESSOR WILSON

113-114. **Nineteenth-Century German Poetry.**—In the first semester the lyric is studied and in the second semester the ballad. 6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WILSON

115-116. **German Drama of the Nineteenth Century.**—A study of leading dramatists from Kleist to Hauptmann. 6 s.h. PROFESSOR KRUMMEL

119-120. **Nibelungenlied to the Twentieth Century.**—The great epochs in German literature studied through English translations. 6 s.h. (w)  
PROFESSOR VOLLMER

121-122. **Schiller.**—A study of his life and works in relation to the culture of the eighteenth century. 6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

123-124. **Modern German Short Story.**—Development and technique of the novelle. 6 s.h. DR. SHEARS  
[Not offered in 1939-40]

125-126. **Contemporary German Literature.**—A study of representative works of the twentieth century. 6 s.h. DR. SHEARS

127-128. **Survey of Nineteenth-Century German Literature.**—Representative selections from all important literary schools from romanticism to contemporary realism. 6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

201-202. **Goethe.**—A study of Goethe's life and works, with special emphasis upon the broader aspects of his ever widening interests and literary activities. 6 s.h. (w) PROFESSOR KRUMMEL

207-208. **German Romanticism.**—The course covers the entire field of German romanticism from 1800 to 1850. 6 s.h. (w) PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—The dramatic development in Germany after Schiller. 6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1939-40]

211-212. **Heinrich Heine and Young Germany.**—Heine's life and thought, culminating in the Jungdeutschland Movement. 6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

213-214. **Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

#### DEPARTMENTAL MAJOR

1. *Prerequisites:* German 1-2 and 3-4.

2. *Major Requirements:* Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104 and 119-120.



## HONORS IN GERMAN

*Prerequisites:*

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least 12 s.h. of College German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

*General Rules:*

I. The departmental Honors program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester-hours of work.

II. *Work in the German Department:* The amount of work taken in the German Department shall be the equivalent of thirty-six semester-hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester-hours credit.

III. *Related Work:* The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester-hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations:* In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

## GREEK

PROFESSOR PEPPLER, CHAIRMAN, AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. TRUESDALE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY

Courses 121-122, 141-142, and 131 are entirely in English and require no knowledge of the Greek language. The purpose in offering them is to give a wider circle of students some conception of the debt which modern civilization owes to the Greeks.

1-2. *Course for Beginners.*—6 s.h. (w) Open to all students.

DR. TRUESDALE

53-54. *Xenophon.*—*Anabasis*, Books I-IV. Open to students who offer one unit of Greek for admission and to those who have completed course 1-2. 6 s.h. (w)

DR. TRUESDALE

105-106. *Homer.*—*Iliad*, Books I-VI. Open to students who offer two units of Greek for admission and to those who have completed courses 1-2 and 53-54 or their equivalent. 6 s.h. (w)

PROFESSOR PEPPLER AND DR. TRUESDALE

107-108. *Plato.*—*Apology*, *Crito*, and selections, together with collateral reading in the *Memorabilia* of Xenophon and in the *Clouds* of Aristophanes. *Euripides.*—One play, to serve as an introduction to Greek tragedy. Open to students who offer three units for admission and to others who have completed the required preliminary work. 6 s.h. (w) ASSISTANT PROFESSOR WAY

115-116. **Sight Reading in Greek.**—Three hours per week through the year. 4 s.h. (w) ASSISTANT PROFESSOR WAY AND DR. TRUESDALE

117-118. **Greek Prose Composition.**—The character of this course is determined by the needs of the students who elect it. 3 s.h. (w) PROFESSOR PEPPLER

121-122. **Greek Literature in English Translation.**—The purpose of this course is to give a general survey of the life and civilization of the Greeks, especially to those who have never studied the language but wish to become acquainted with some of the choicest portions of the literature by the use of translations. It is, however, open as an elective to all Juniors and Seniors, whether they know Greek or not. First, the *Iliad* and the *Odyssey* are read in translation and illustrated with stereopticon views of the excavations and discoveries at Troy and other cities of the Aegean age; then, many of the extant plays of the three great tragic poets are studied in English translations. 6 s.h. (w) PROFESSOR PEPPLER

*The student may elect course 122, whether he has taken course 121 or not.*

141-142. **Greek Art.**—Lantern lectures, introduced or supplemented by formal lectures dealing mainly with Greek sculpture and Greek architecture. Some account is given of Egyptian and Mesopotamian art by way of introduction. No knowledge of Greek is required. 6 s.h. (w) ASSISTANT PROFESSOR WAY

131. **History of Greece.**—The history of Greece with introductory matter relating to the Aegean civilization. 3 s.h. (w) ASSISTANT PROFESSOR WAY

201-202. **Greek Tragedy.**—Selected plays are read, and their dramatic construction and distinctive features are discussed. 6 s.h. (w) PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

203-204. **Homer.**—*Odyssey*. Pindar and Bacchylides. 6 s.h. (w) DR. TRUESDALE

205-206. **Greek Historians.**—Herodotus, Book VII; Thucydides, Book VII. 6 s.h. (w) PROFESSOR PEPPLER

207-208. **Greek Orators.**—Selected speeches. 6 s.h. (w) ASSISTANT PROFESSOR WAY

209-210. **Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. (w) ASSISTANT PROFESSOR WAY

211-212. **Aristophanes.**—Selected comedies. 6 s.h. (w) PROFESSOR PEPPLER

*Only one of the six year-courses for Seniors and Graduates (201-212), listed above, is offered each year.*

243. **Athenian Topography.**—The topography and monuments of ancient Athens. 3 s.h. (w) ASSISTANT PROFESSOR WAY

244. **Greek Epigraphy.**—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. (w) ASSISTANT PROFESSOR WAY

245. **Greek Dialects.**—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined with reference, where possible, to their origin in proto-ethnic Greek. 3 s.h. (w) ASSISTANT PROFESSOR WAY

**246. Greek Historical Inscriptions.**—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. (w) ASSISTANT PROFESSOR WAY

**247-248. Greek Archaeology.**—Advanced course in the general field for Seniors and Graduates, comprising architecture, sculpture, vases and the minor arts. 6 s.h. (w) ASSISTANT PROFESSOR WAY

*Of the courses numbered from 243 to 248 only two semester-courses are offered each year.*

#### DEPARTMENTAL MAJOR

*Prerequisite:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester-hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

(a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.

(b) Four year-courses in related departments.

(c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester-hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject matter covered by their studies in Greek.

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*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## HEALTH AND PHYSICAL EDUCATION

### TRINITY COLLEGE

DIRECTOR OF PHYSICAL EDUCATION WADE; MESSRS. AYCOCK, CALDWELL, CAMERON, CARD, CHAMBERS, COOMBS, CRICHTON, FOGELMAN, GERARD, HAGLER, LEWIS, PERSONS, STANLEY, WARREN

#### REQUIRED PHYSICAL EDUCATION FOR MEN

Six-hours credit in physical education with an average grade of "C" must be completed for graduation. Three hours a week through the Sophomore year are needed to fulfill this requirement. All students must enroll in physical education until they have completed the requirement.

All students are required to take a medical and physical examination before registering. Those who reveal pronounced physical deficiencies are excused from the regular courses in physical education and are required to take the course entitled "Individual Corrective Activities." Students assigned to this work continue to take it until they have been pronounced reasonably sound. Thereupon they withdraw from this course and register in the

regular physical education course. A student may take from one to eight semesters of this special work. Students without defects may elect to take any four courses they choose. In general, these activities fall in one of three groups: those developing physical efficiency; those affording competitive contests; and those occupying recreative or leisure time. Since a student is not allowed to take the same course twice, he covers four courses in the two years of required work.

Students may receive physical education credit for participation in Freshman and varsity intercollegiate sports.

The regulation indoor suit consists of a sleeveless white shirt, blue running pants, supporter, sweat socks, and rubber-soled shoes. For outdoor work a sweat suit should be added to the above list and shoes suitable for the sport.

#### PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. WARREN
5-6. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. FOGLEMAN
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Track.—1½ s.h.	MR. LEWIS
25-26. Wrestling.—1½ s.h.	MR. WARREN
27-28. Apparatus Stunts.—1½ s.h.	MR. CARD
55-56. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER

#### INTERCOLLEGIATE ATHLETIC SPORTS

FRESHMEN	VARSITY
30. Baseball.—1½ s.h.	70. La Crosse.—1½ s.h.
32. Basketball.—1½ s.h.	80. Baseball.—1½ s.h.
34. Boxing.—1½ s.h.	82. Basketall.—1½ s.h.
37. Football.—1½ s.h.	84. Boxing.—1½ s.h.
38. Football.—1½ s.h.	87. Football.—1½ s.h.
41. Cross Country.—1½ s.h.	88. Football.—1½ s.h.
42. Swimming.—1½ s.h.	90. Golf.—1½ s.h.
44. Tennis.—1½ s.h.	91. Cross Country.—1½ s.h.
46. Track.—1½ s.h.	92. Tennis.—1½ s.h.

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|------------------------|------------------------------|
| 48. Wrestling.—1½ s.h. | 93. Soccer Football.—1½ s.h. |
| 50. La Crosse.—1½ s.h. | 94. Swimming.—1½ s.h.        |
|                        | 96. Track.—1½ s.h.           |
|                        | 98. Wrestling.—1½ s.h.       |

## ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect twelve semester-hours from the courses offered below. Three semester-hours may be elected from the courses listed under Special Methods in Physical Education and nine semester-hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

## SPECIAL METHODS IN PHYSICAL EDUCATION

163. **Athletic Coaching in Secondary Schools.**—Theory and practice in the fundamentals of coaching baseball and track. Prerequisites: courses 30 or 80 and 21-22 or 46 or 96 or their equivalent. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. COOMBS, MR. CHAMBERS

164. **Athletic Coaching in Secondary Schools.**—Theory and practice in the fundamentals of coaching football and basketball. Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. WADE, MR. STANLEY, MR. CAMERON

## THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. **History and Principles of Physical Education.**—A study of the objectives and principles upon which physical education is based. The history of physical education is studied in order to show the changes in objectives, principles, and methods and as an aid in the interpretation of trends. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. AYCOCK, MR. GERARD

172. **Recreational Leadership.**—Combative contests, games, mass athletics, supervision of community recreation. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. GERARD

173. **Individual Gymnastics.**—The diagnosis of abnormal cases, including overweight, underweight, post-operative, postural, and flat-foot cases, with the prescription of exercise for their correction. Open to Sophomores, Juniors, and Seniors. 3 s.h. MR. AYCOCK

182. **The Administration of Health and Physical Education in Secondary Schools.**—Presents the everyday problems that arise in the experience of the teacher of health and physical education. Open to Juniors and Seniors. 3 s.h. MR. AYCOCK, MR. GERARD

187. **School Programs of Physical Education.**—Open to Juniors and Seniors. 3 s.h. MR. GERARD

190. **Protective Practices in Physical Education.**—A study of safety measures including training and first aid. Open to Juniors and Seniors. 3 s.h. MR. CHAMBERS



## WOMAN'S COLLEGE

MISS GROUT, CHAIRMAN;

MRS. BOOKHOUT, MISS DOWLING, MISS LEWIS, AND MISS WYCHE

Six hours credit in physical education, with an average grade of "C," must be completed for graduation. For women students two hours a week through the Junior year are needed to fulfill this requirement.

All students are given a physical and medical examination upon entering and at intervals throughout their college course. Classes in individual gymnastics and light sports are arranged for those who should not take the more active work.

*The regulation costume (approximate cost \$6.00) should be purchased from the College Store at the beginning of the year. Uniform tank suits are provided at the gymnasium.*

## ACTIVITIES OFFERED

*Fall term (October to December):* Hockey, soccer, swimming, diving, tennis, riding, light sports, volleyball, golf.

*Winter term (December to March):* Body mechanics, gymnastics, individual gymnastics, apparatus and stunts, clog and character dancing, folk dancing, social dancing, modern dance, swimming, life-saving, basketball, bowling.

*Spring term (March to June):* Tennis, swimming, diving, riding, baseball, track and field, archery, golf, badminton.

## ELECTIVES IN PHYSICAL EDUCATION

In view of the fact that there is an increasing demand for teachers of general subjects who are qualified to assist in physical education in the public schools, the following courses are offered as electives for prospective teachers and as introductory courses for students planning to continue the study of physical education as a profession. Students other than those in Group VI do not receive academic credit for these courses.

**81. History and Principles of Physical Education.**—Prerequisite: Educational Psychology. An historical survey of physical education stressing the relation between the types of activity developed and the social and political ideals of different nations and periods. An interpretation of aims and objectives; a study of the relative values of the activities in a program of physical education. 3 s.h. (E) Miss Grout

**102. The Teaching of Physical Education in Elementary Schools.**—Required of women students in Group VI B. A course intended to familiarize prospective elementary school teachers with methods and materials used in teaching physical education to children; includes discussions on the theory of physical education, and practice in teaching elementary school activities. Courses 102 and 185 are mutually exclusive. Open to Sophomores, Juniors, and Seniors. 3 s.h. (E) Miss Grout

**108. Recreation Leadership.**—This course includes a study of the recreational needs of adolescents and adults; qualities and preparation for leadership; the administration of playgrounds and play centers, including the local community set-up; materials and methods for directing recreational activities. Valuable for students interested in community work. Open to Sophomores, Juniors, and Seniors. 2 s.h. (E) Miss Dowling

**181-182. Methods of Teaching Athletic Activities.**—A course in the theory and practice of teaching and officiating in team games and athletic sports for girls and women. Open to Juniors and Seniors. 6 s.h. (E) THE STAFF



**185. The Teaching of Physical Education in Secondary Schools.**—This course is intended to give prospective high-school teachers an acquaintance with problems connected with physical education in secondary schools in order that they may be better fitted to help with high-school athletics in communities where no physical education teacher is provided. Discussions and practice teaching. Courses 185 and 102 are mutually exclusive. Open to Sophomores, Juniors, and Seniors. 3 s.h. (E)  
MISS GROUT

#### HYGIENE AND HEALTH EDUCATION

**41. Hygiene.**—A study of personal and community health problems including the essential facts of anatomy, physiology, body mechanics, and mental hygiene. Emphasis is placed on the practical application of hygienic principles to individual needs. *Either semester.* 3 s.h. (E)  
MISS WYCHE

**112. Personal and School Hygiene.**—General, personal, and school hygiene with some instruction in anatomy and physiology; cause, transmission, and prevention of communicable diseases; the more common defects of school children; schoolhouse sanitation; medical inspection; etc. 3 s.h. (E)  
MISS GARDINER

**132. School Health Problems.**—A study of the school health program and the health problems in the classroom experienced daily by the teacher. An understanding of how the child's body, mind, and emotions differ from an adult's, how they develop into the adult stage, and how they should be cared for during school years. Materials and methods in health education. Open to juniors and seniors. 3 s.h. (w)  
ASSISTANT PROFESSOR AYCOCK

#### HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE INSTRUCTION; DR. HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, AND SYDNOR; ASSOCIATE PROFESSORS CLYDE AND LANNING; ASSISTANT PROFESSORS MANCHES-TER, QUINN, ROBERT, STILL, AND WOODY; DRS. MCCLOY, MABRY, PARKER, ROPP; MR. MUNYAN; MISS CHAFFIN (PART-TIME)

The undergraduate courses in history are designed to afford (1) an introduction to the study of history by a survey of the history of modern Europe; (2) a more intensive study of general American history; (3) opportunities for more advanced study of phases of American, English, European, Hispanic-American and Eastern history which interest the teachers and students.

Course 1-2 or 51-52 is a prerequisite for all other courses; courses 91 and 92 are prerequisite for courses 114, 119-120, 121-122, 153-154, 209-210, 215-216, 263-264, 265-266. Sophomores who took only one semester of course 1-2 in the Freshman year may be admitted to courses 91 and 92, 61-62, or 65-66, provided they made a grade of "B" or above on the semester taken. Courses offered for Seniors and Graduates are limited to twenty-five students; Juniors may not elect them without special permission from the Department and the Council on Graduate Instruction. Sophomores must obtain permission of the instructor in order to be admitted to courses numbered above 100; students who are not fully qualified Sophomores will not be admitted to these courses.

**1-2. Modern and Contemporaneous Europe.**—In this course the development of modern Europe since the middle of the sixteenth century is traced with special reference to the rise of nationality, the Industrial Revolution, scientific thought, domestic politics in the leading states, colonial expansion, diplomacy, and the World War. 6 s.h. (w & e)

Sophomores and Juniors may not be admitted to this course. Courses 1 and

2 are each offered in both semesters. Either semester may be counted separately as an elective but not as fulfilling the minimum uniform requirements or as a basis of further work in history.

PROFESSOR CARROLL; ASSOCIATE PROFESSORS CLYDE AND NELSON;  
ASSISTANT PROFESSORS MANCHESTER AND QUINN; DRs.  
HAMILTON, PARKER, McCLOY, AND ROPP; MISS CHAFFIN

**51-52. Modern and Contemporaneous Europe.**—The history of Europe since the beginning of the sixteenth century with special reference to the rise of nationality, the Industrial Revolution, colonial expansion, and international relations. 6 s.h. (w & e)

Courses 51 and 52 are each offered in both semesters.

PROFESSOR BALDWIN, DR. MABRY, AND MR. MUNYAN

[Not open to Freshmen or to students who have had course 1-2.]

**61-62. Russia and the Near East From Peter the Great to Stalin.**—The rise of Russia and its effect on international relations; the break-up of the Ottoman Empire and the formation of the Balkan states; the abolition of serfdom and the Industrial Revolution in Russia; the Russian Revolution; international, agrarian, and industrial policies of the Soviet Union; the Danube basin and the revival of German imperialism in the Near East; Arabian nationalism and the conflict of England and Italy in the Mediterranean area. Prerequisite: course 1-2 or 51-52. 6 s.h. (w)

DR. ROPP

**65-66. The Social and Cultural History of Western Europe in the Seventeenth and Eighteenth Centuries.**—6 s.h. (w)

DR. McCLOY

[Not offered in 1939-40]

**91. Political and Social History of the United States to 1830.**—A general survey of the development of the United States in which effort is made to place the proper emphasis on underlying economic or other causes of political and social progress. 3 s.h. (w & e)

ASSISTANT PROFESSORS ROBERT AND STILL; DR. MABRY

**92. Political and Social History of the United States, 1830 to 1900.**—This course completes the work begun in 91. 3 s.h. (w & e)

ASSISTANT PROFESSORS ROBERT AND STILL; DR. MABRY

*Note: In courses 91 and 92 no texts are required, but each student pays a class fee of \$3.00 per semester with which all books to be read are purchased and placed in the libraries. This fee is collected through the Treasurer's Office.*

**101-102. Early European Civilization.**—A study of the development in Western Europe of the institutions and culture of ancient times and the middle ages. 6 s.h. (e)

*Sophomores who made an average grade of "B" or more on course 1-2 may be admitted to this course.*

ASSISTANT PROFESSOR QUINN

**105-106. English Constitutional History.**—A history of England with emphasis on constitutional aspects. This course is required of students in the pre-legal group in the Junior or Senior year. 6 s.h. (w)

DR. HAMILTON

**107-108. Social and Cultural History of England.**—Chief attention is given to the period from the time of Chaucer to the present. Sophomores who made a grade of "B" or above on course 1-2 may be admitted to this course. 6 s.h. (e)

MR. MUNYAN

**109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.**—6 s.h. (w)

ASSOCIATE PROFESSOR NELSON

[Not offered in 1939-40]

**114. History of the United States since Reconstruction.**—Reconstruction and its aftermath; cultural, political, and economic development since 1876, agrarian and labor problems, the rise of large industry, the Spanish War and imperialism, the World War, and post-bellum problems. Prerequisites: courses 91 and 92. 3 s.h. (w)

ASSOCIATE PROFESSOR LANNING

**119-120. Social and Cultural History of the United States.**—A survey of American life and manners with emphasis on religious, educational, and reform movements, on trends of literary and artistic expression, and on the social effects of a changing economy. Prerequisites: courses 91 and 92. 6 s.h. (w)

ASSISTANT PROFESSOR ROBERT

**121-122. The Church in American History.**—Among the subjects considered are the relation of theology and church government to political theory and practice, the social and political results of the Great Awakening and of ecclesiastical controversies, the part played by the Church in the American Revolution and in the making of state constitutions, in education, westward expansion, in the reform movements of the nineteenth century, labor controversies, the Civil and World Wars, and internationalism. Prerequisites: courses 91 and 92. 6 s.h. (E)

PROFESSOR BALDWIN

[Not offered in 1939-40]

**123-124. English History.**—A study of transitions in the political institutions and social development from the Norman Conquest to the present. 6 s.h. (w)

PROFESSOR LAPRADE

**125. The Ancient Regime, the French Revolution, and Napoleon.**—3 s.h. (w)

PROFESSOR CARROLL

[Not offered in 1939-40]

**126. The Congress of Vienna and the Rise of the European Nations to 1870.**—3 s.h. (w)

PROFESSOR CARROLL

[Not offered in 1939-40]

**127. History of Latin America.**—3 s.h. (w)

ASSOCIATE PROFESSOR LANNING

**130. European Expansion Overseas.**—The age of discovery and exploration, the origin and development of the great European empires overseas, and the influence of this movement on the peoples of Western Europe. 3 s.h. (w)

ASSISTANT PROFESSOR MANCHESTER

**Ancient History.**—Greek 131—Latin 131-132.—See Departments of Greek, Latin and Roman Studies. These courses do not count toward a major in history. (w)

**135. Main Currents in European History, 1815-1914.**—3 s.h. (w)

PROFESSOR CARROLL

**136. Europe since 1914, Including the Rise of the Totalitarian States, Russia, Italy, and Germany.**—3 s.h. (w)

PROFESSOR CARROLL

**141-142. The Far East.**—A survey of western contacts with China and Japan since 1515. 6 s.h. (w)

ASSOCIATE PROFESSOR CLYDE

**153-154. The History of the South from Colonial Times through the Period of Reconstruction.**—6 s.h. (w)

PROFESSOR SYDNOR

#### FOR SENIORS AND GRADUATES

**209-210. American Constitutional History.**—A study of the colonial foundations of American constitutional attitudes, the constitutional aspects of the American Revolution, the framing and ratification of the Constitution, the statehood process and the extension of democracy, the constitutional implications of sectional conflict, and the Supreme Court in its relation to the problems of an industrial America. Prerequisites: courses 91 and 92. 6 s.h. (w)

[Not offered in 1939-40]

ASSISTANT PROFESSOR STILL

211. **The Teaching of History and the Social Studies (Education 225).**—3 s.h. (w) ASSISTANT PROFESSOR MANCHESTER

215-216. **History of the United States' Foreign Policy.**—This course traces the history of American diplomacy since 1789. Prerequisites: courses 91 and 92. 6 s.h. (w) ASSOCIATE PROFESSOR CLYDE

217-218. **Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. 6 s.h. (w) [Not offered in 1939-40] PROFESSOR CARROLL

219-220. **The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansion, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. (w) PROFESSOR CARROLL

223-224. **Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literatures, philosophy, and art in the period 300-1300 A.D. 6 s.h. (w) ASSISTANT PROFESSOR QUINN

221-222. **The Age of the Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. 6 s.h. (w) [Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

225-226. **The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h. (w) [Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h. (w) [Not offered in 1939-40] ASSOCIATE PROFESSOR LANNING

232. **Hispanic Republics of the New World.**—3 s.h. (w) [Not offered in 1939-40] ASSOCIATE PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h. (w) ASSOCIATE PROFESSOR LANNING

234. **Political and Social Problems in the Hispanic American Republics.**—3 s.h. (w) ASSOCIATE PROFESSOR LANNING

241. **History of Modern Japan.**—A survey of institutional development, political, economic, and social, since 1850. 3 s.h. [Not offered in 1939-40] ASSOCIATE PROFESSOR CLYDE

242. **History of Modern China.**—A survey of institutional development, political, economic, and social, since 1840. 3 s.h. (w) [Not offered in 1939-40] ASSOCIATE PROFESSOR CLYDE

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies and the American Revolution. Prerequisites: courses 91 and 92. 6 s.h. (w) ASSISTANT PROFESSOR WOODY



**265-266. The Westward Movement in the United States.**—A study of the progress of settlement from the Atlantic to the Pacific coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state-making, and the social, economic, and political effects of the westward march upon the United States as a whole. Prerequisites: courses 91 and 92. 6 s.h. (w)

ASSISTANT PROFESSOR STILL

#### DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester-hours in the Department, including six semester-hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better courses 1-2 in the Freshman year, 91-92 in the Sophomore year, and by the end of the Junior year twelve semester-hours selected from the courses given in the 100 group.

In the Senior year, in addition to the equivalent of fifteen semester-hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester-hours of work from the courses offered in the 200 group, on which he is required to make a grade of "B" or better, and sufficient related work in other departments not exceeding nine semester-hours in the Senior year to bring the total of history and related work exclusive of courses 1-2 and 91-92 but including the equivalent of fifteen semester-hours of supervised reading to a total of 48 semester-hours.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester-hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, the better known chroniclers, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester-hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

#### LATIN AND ROMAN STUDIES

PROFESSOR ROSBOROUGH, CHAIRMAN; PROFESSOR ROGERS; ASSISTANT  
PROFESSOR GATES; DR. ROSE

Work is offered in several branches of Roman Studies: Latin Language and Literature, Roman Art and Archaeology, Roman History, Roman Law. Students who present two entrance units in Latin should take course 3-4; those who present three entrance units should take courses 57 and 63 and follow up with courses 4 and 58 or 66, or both, the second semester; those who enter with four units of Latin should pursue course 41-42. A course for beginners, Latin 1-2 is open to all college students.

**1-2. Course for Beginners.**—Forms, vocabulary, pronunciation and syntax are emphasized the first semester, and will be followed by the reading and translating of Caesar's *Galic War* the second semester. An effort is made to promote rapid development of ability to read easy Latin with satisfaction. 6 s.h. (w or e)

DR. ROSE

3. **Cicero's Orations.**—Four orations including the *Manilian Law* and *Archias* are read, and attention is paid to prose style. Prerequisite: two entrance units of Latin. 3 s.h. (w) ASSISTANT PROFESSOR GATES OR DR. ROSE

4. **Vergil's Aeneid.**—Selections from Books I-VI, to the amount of four books or more, will be read and translated, due attention being paid to prosody. Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. (w)

ASSISTANT PROFESSOR GATES OR DR. ROSE

65-66. **Latin Prose Composition.**—Recommended to students who are pursuing courses 3-4, 57, and 41-42, and may at the discretion of the instructor be required of such students. 2 s.h. (E) DR. ROSE

41. **Livy's History of Rome.**—Selections from Books I, XXI, and XXII of Livy's *Ab Urbe Condita Libri*, together with selected parallel reading in English, will acquaint the student with a truly great literary artist. At the discretion of the instructor the following may be substituted for Livy: Cicero's *De Amicitia* and *De Senectute*, or Selected Prose Writers, or *Comedies* of Plautus and Terence. 3 s.h. (w & E) THE STAFF

42. **Horace.**—The Odes and Epodes. 3 s.h. (w & E) THE STAFF

53. **Sallust and Tacitus.**—The *Jugurtha* of Sallust, the *Agricola* of Tacitus. Prerequisite: Latin 41-42 or an equivalent. 3 s.h. (w or E) DR. ROSE

54. **Catullus.**—Most of the poems will be read, and Catullus's influence on certain ancient and modern poets will be discussed. 3 s.h. (w or E)

DR. ROSE

57. **Sight Reading in Classical Latin.**—One period of an hour per week devoted to practice in the reading of Latin of the classical period; designed to train students to read with facility. (See course 4.) *No outside preparation is required.* 1 s.h. (w or E) THE STAFF

58. **Sight Reading in Mediaeval Latin.**—One period of an hour per week devoted to reading interesting Mediaeval prose and poetry. Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. *No outside preparation is required.* 1 s.h. (E or w)

PROFESSOR ROSBOROUGH

59. **Roman Law.**

[Not offered in 1939-40]

101. **Tacitus and Suetonius.**

[Not offered in 1939-40]

102. **Juvenal and Persius.**

[Not offered in 1939-40]

103. **The Roman Elegiac Poets.**—Selected elegies of Tibullus, Propertius, and Ovid will be read. The history and development of this literary genre will be studied. 3 s.h. (E)

PROFESSOR ROSBOROUGH

104. **Horace: Satires and Epistles.**—The social satire and poetic literary epistles, with considerable attention to the famous *Ars Poetica*. 3 s.h. (E)

PROFESSOR ROSBOROUGH

105-106. **Martial's Epigrams: Letters of the Younger Pliny.**

[Not offered in 1939-40]

107. **Livy: Ab Urbe Condita.**—Extensive selections from Livy's History of Rome, not duplicating parts read in course 41. 3 s.h. (E)

ASSISTANT PROFESSOR GATES



108. **Cicero's Letters.**—A considerable amount of the interesting and historically important correspondence of Cicero will be read and interpreted. 3 s.h. (E) ASSISTANT PROFESSOR GATES

109. **Materials and Methods.**  
[Not offered in 1939-40]

111-112. **Roman Literature in English Translation.**—A survey of Rome's literature and literary men studied through the best English translations: drama, epic, history, biography, lyric, elegy, satire, epistle, epigram, rhetoric, oratory, law, science, and philosophy. For students who need an acquaintance with Rome's influence and contribution to world literature. *No knowledge of Latin is required.* 6 s.h. (W) PROFESSOR ROSBOROUGH

113-114. **Roman Civilization.**  
[Not offered in 1939-40]

115. **The Architecture of Ancient Rome.**—*See course 216.*  
[Not offered in 1939-40]

131-132. **History of Rome.**—A survey of the history of Rome from its beginnings through the Monarchy, Republic and Principate to the death of Justinian; Rome's expansion; development of the Roman constitution and public administration; a study of important features of social, legal, political, and economic problems of perennial life and interest. (*This course carries no language credit. No knowledge of Latin is required for admission.*) 6 s.h. (W) PROFESSOR ROGERS

203-204. **Roman Epic Poetry.**—The development and significance of the Epic in Latin Literature, with considerable reading in the Roman epic poets. 6 s.h. (E) ASSISTANT PROFESSOR GATES

205-206. **Roman Drama.**  
[Not offered in 1939-40]

207-208. **Roman Philosophy.**—Cicero, Lucretius, Seneca.  
[Probably not to be offered in 1939-40] PROFESSOR ROSBOROUGH

211-212. **Roman Oratory.**—Starting with the Brutus of Cicero, a comprehensive study of Roman eloquence will be made. 6 s.h. (E) PROFESSOR ROGERS

215. **Roman Art and Archaeology.**—*See course 216.*  
[Not offered in 1939-40]

216. **Topography and Monuments of Ancient Rome.**—A study of the site of Rome, its development and expansion; city plan; public buildings, dwellings, theatres, fora, shops, sewers, aqueducts, etc.; materials and methods of construction. *May be offered the first semester in 1939-40.* 3 s.h. (W) PROFESSOR ROSBOROUGH

*For other courses numbered in the 200 group, see the Bulletin of the Graduate School.*

#### DEPARTMENTAL MAJOR

**Prerequisites:** Latin 41-42, 65-66, or acceptable equivalents.

**Major Requirements:** Latin 53-54, 101-102, six semester-hours in courses numbered from 103 to 108, and six semester-hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

## LAW COURSES FOR ACADEMIC STUDENTS

PROFESSORS BOLICH, FULLER, LATTY, LOWNDES, MAGGS, POTEAT; ASSISTANT PROFESSOR SANDERS; MR. ROALFE

The first-year program of the Law School is as follows:

- |  |                             |
|--|-----------------------------|
| L.201. Introduction to Procedure.—2 s.h.               | PROFESSOR POTEAT            |
| L.203-204. Contracts.—6 s.h.                           | PROFESSOR FULLER            |
| L.205-206. Criminal Law and Its Administration.—4 s.h. | ASSISTANT PROFESSOR SANDERS |
| L.207-208. Chattel Transactions.—4 s.h.                | PROFESSOR LATTY             |
| L.210. Possessory Estates.—2 s.h.                      | PROFESSOR BOLICH            |
| L.211-212. Torts.—5 s.h.                               | PROFESSOR MAGGS             |
| L.213. Legal Bibliography.—1 s.h.                      | MR. ROALFE                  |
| L.214. Agency.—2 s.h.                                  | PROFESSOR LOWNDES           |

## MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MILES, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS RANKIN AND THOMAS; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS ALDRIDGE, GREENWOOD, HICKSON, PATTERSON, AND ROBERTS; DRs. BOAS AND DRESSEL; MR. MARTIN (PART-TIME); AND ASSISTANTS

Mathematics 3-4 or the equivalent is required of all students in the Business Administration Group. Mathematics 7 and 8, or the equivalent, is required of all students in the Pre-Medical and Pre-Forestry Groups, and the General Group leading to the Bachelor of Science degree. Placement tests in algebra are administered to all entering students planning to take courses in mathematics. Students in the Business Administration Group found deficient in algebra must complete Mathematics 1 before taking Mathematics 3-4 or its equivalent. Students in the Pre-Medical and Pre-Forestry Groups and the General Group leading to the Bachelor of Science degree who are found deficient in algebra must substitute Mathematics 1 and 2 for Mathematics 7. Course combinations which may be regarded as equivalent to Mathematics 3-4 are combinations which include Mathematics 51, 59, or 76. Course combinations which may be regarded as equivalent to Mathematics 7 and 8 are Mathematics 1, 2, and 8, and combinations which include Mathematics 51 or 59.

Credit is allowed for half of a double course.

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|--|-------|
| 1. Introduction to College Algebra.—3 s.h. (w & e) | STAFF |
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|---|-------|
| 2. Plane Trigonometry.—The normal course for students in the General, Pre-medical, and Pre-forestry Groups who have completed Mathematics 1. 3 s.h. (w & e) | STAFF |
|---|-------|

3-4. Mathematical Analysis for Students of Business.—Topics in algebra, trigonometry and calculus; applications to problems in business, investment, finance, insurance, budgeting, and statistics. The normal first course for students in the Business Administration Group. 6 s.h. (w): Mathematics 3 each semester; Mathematics 4 each semester. (e): Mathematics 3 each semester; Mathematics 4 second semester.

STAFF

**7. Algebra and Trigonometry.**—Essentials of college algebra and plane trigonometry. The normal first course for students in the General, Pre-Medical, and Pre-Forestry Groups. 3 s.h. (w): each semester. (E): first semester. STAFF

**8. Introduction to Analytic Geometry and Differentiation.**—The normal course for students who have completed Mathematics 1 and 2 or Mathematics 7 and who desire only a brief introduction to analytic geometry and calculus. Students who prefer the more detailed study of these subjects offered in Mathematics 50 and 51-52 or 59-60 should take Mathematics 50 rather than Mathematics 8. 3 s.h. (w): each semester. (E): second semester. STAFF

**9-10. First-Year Engineering Mathematics.**—College algebra, plane trigonometry, plane analytic geometry, introduction to solid analytic geometry. Designed primarily for students in the Engineering Groups. 10 s.h. (E) STAFF

**50. Analytic Geometry.**—Rectangular and polar coördinates; curve tracing; locus problems; straight line; the parabola, ellipse, and hyperbola; introduction to solid analytic geometry. This course normally must be preceded by Mathematics 2 or Mathematics 7. It may, however, be taken as a first course by a student whose preparation is regarded adequate by the Department. 3 s.h. (w & E): each semester. STAFF

**51-52. Differential and Integral Calculus.**—First half (Differential Calculus): differentiation of elementary functions; curve tracing; maxima and minima problems; differentials; curvature; motion problems; infinite series. Second half (Integral Calculus): indefinite integrals; the integral as a limit of a sum; applications to areas, volumes, centroids, etc.; partial differentiation; multiple integrals. Prerequisite: analytic geometry. 6 s.h. (w): Mathematics 51 each semester; Mathematics 52 each semester. (E): Mathematics 51 second semester. STAFF

**59-60. Second-Year Engineering Mathematics.**—A correlated development of differential and integral calculus. Designed primarily for students in the Engineering Groups. Prerequisite: analytic geometry. 8 s.h. (E) STAFF

**71. Mathematics of Investment.**—Simple and compound interest, annuities certain, amortization, sinking funds, depreciation, evaluation of bonds, life insurance. Designed primarily for students in the Business Administration Group. Prerequisite: 6 semester-hours of college mathematics. 3 s.h. (w) ASSISTANT PROFESSOR HICKSON

**74. Statistics.**—Averages; measures of dispersion, skewness and correlation; probable error; curve fitting; graduation of data to type curves; index numbers. Applications to problems in business and other fields. Prerequisite: 6 semester-hours of college mathematics. *Offered in alternate years.* 3 s.h. (w) [Not offered in 1939-40] ASSISTANT PROFESSOR HICKSON

**76. Mathematical Theory of Economics.**—A study from a mathematical point of view of cost and demand functions, monopoly, competition, cooperation, exchange, utility, and production; supplementary review and development of the essential mathematical ideas. *Offered in alternate years.* Prerequisite: Mathematics 4 or Mathematics 8 or the equivalent. 3 s.h. (w) ASSISTANT PROFESSOR HICKSON

**131. Elementary Differential Equations.**—Solution of elementary types; formation and integration of equations arising in applications. Prerequisite: integral calculus. 3 s.h. (w) ASSISTANT PROFESSOR MILES

**139-140. Second Course in Calculus.**—Multiple integrals, partial differentiation, Taylor's theorem, envelopes, line integrals, Green's theorem, ordinary and partial differential equations, improper integrals, complex numbers. Prerequisite: integral calculus. 6 s.h. (w) PROFESSOR ELLIOTT

**160. Elementary Solid Analytic Geometry.**—Cartesian and tetrahedral coördinates, configurations of planes and straight lines, quadric surfaces, algebraic curves. Prerequisite: differential calculus. 3 s.h. (w)

ASSISTANT PROFESSOR MILES

**161-162. Reading Course for Juniors.**—Open only to Juniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See the Departmental Honors Program. STAFF

**163-164. Reading Course for Seniors.**—Open only to Seniors reading for Honors in Mathematics. Material, credit, and hours arranged in consultation with tutor. See the Departmental Honors Program. STAFF

#### FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. *Offered in alternate years.* 3 s.h. (w) PROFESSOR RANKIN

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, correlation of different branches. *Offered in alternate years.* Must be preceded or accompanied by Mathematics 52 or 60. 3 s.h. (w) PROFESSOR RANKIN

**207. Fundamental Concepts of Algebra and Geometry.**—The concepts: number, variable, function, limit, group, definition, axiom, space, proof. Prerequisite: integral calculus. 3 s.h. (E)  
[Not offered in 1939-40]

**225. Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: differential calculus. 3 s.h. (w) PROFESSOR THOMAS

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. 6 s.h. (w) ASSOCIATE PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. 6 s.h. (w) ASSOCIATE PROFESSOR CARLITZ  
[Not offered in 1939-40]

**235-236. Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: differential calculus. 6 s.h. (w)  
[Not offered in 1939-40]

**250. Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. Prerequisite: differential calculus. 3 s.h. (E)  
[Not offered in 1939-40]

**252. Non-Euclidean Geometry.**—Geometry of Bolyai and Lobachevsky. Prerequisite: integral calculus. 3 s.h. (w) ASSISTANT PROFESSOR ROBERTS  
[Not offered in 1939-40]



255-256. **Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coördinates, order, continuity, metric properties. Prerequisite: differential calculus. 6 s.h. (w)  
ASSISTANT PROFESSOR ROBERTS

275. **Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Prerequisite: integral calculus. 3 s.h. (w)  
DR. BOAS

281. **Elementary Potential Theory.**—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. 3 s.h. (w)  
[Not offered in 1939-40] ASSISTANT PROFESSOR MILES

282. **Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrödinger's equation. Prerequisite: integral calculus. 3 s.h. (w)  
[Not offered in 1939-40] DR. DRESSER

283. **Fourier Series and Spherical Harmonics.**—Fourier series and integral, Legendre polynomials, spherical harmonics, Bessel functions. Applications to mathematical physics. Prerequisite: integral calculus. 3 s.h. (w)  
[Not offered in 1939-40]

284. **Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. 3 s.h. (w)  
PROFESSOR THOMAS

287. **Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h. (w)  
[Not offered in 1939-40]

288. **Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. 3 s.h. (w)  
[Not offered in 1939-40]

291-292. **Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, continuous functions, Riemann integrals, implicit functions, power series, double series, linear transformations, elementary functions, Cauchy's theorem and its applications, entire functions, residues, Riemann surfaces, conformal mapping. Prerequisite: Mathematics 140. 6 s.h. (w)  
ASSOCIATE PROFESSOR GERGEN

#### DEPARTMENTAL MAJOR

*Prerequisites:* Six semester-hours of Freshman mathematics.

*Major Requirements:* Mathematics 50, 51-52 or 59-60, and twelve semester-hours in courses numbered above 100. These twelve hours must be approved by the Department through the Director of Undergraduate Studies.

#### DEPARTMENTAL HONORS PROGRAM

Candidates for Honors in mathematics should have a practical reading knowledge of French and German. A deficiency in either should be made up, if possible, during the Junior year.

*Prerequisites:* A student who has completed Mathematics 51 or 59 and who has earned an average grade of "B" or better in his courses in mathematics may become a candidate for Honors.

#### *Honors Work:*

(a) **Work in Mathematical Courses:** To graduate with Honors a candidate must complete, with an average grade of "B" or better, a minimum of eighteen semester-hours of work in courses numbered above 100. None of the eighteen semester-hours can be in Mathematics 161-162 or 163-164. At least six of them must be in courses numbered above 200.

(b) **Tutorial Work:** During the Honors program a candidate studies special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester-hours of credit for this tutorial work. He can not earn more than ten semester-hours for this work nor more than thirty-six semester-hours for his course work in mathematics and his tutorial work combined.

(c) **Work in Courses in Related Fields:** A candidate must earn a sufficient number of semester-hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester-hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

*General Honors Examination:* At the end of the Senior year each candidate reading for Honors in mathematics must take a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

## MUSIC

MESSRS. BROADHEAD AND BRUINSMA

### THEORY

**11-12. Fundamentals of Music.**—The elements of harmony, rhythm, and form. The visual and aural recognition of scales, intervals, triads, and seventh chords and their functions in relation to the system of tonality. Harmonization of melodies. Development of rhythmic discrimination. A general background for advanced courses in the department. Students will meet with the instructor in small groups an additional hour each week. 6 s.h. (E)

MR. BRUINSMA

**61-62. Counterpoint, Canon and Fugue.**—Strict counterpoint in the "five species"—melodious part-writing with a restricted harmonic basis. Composition in the polyphonic forms, notably canon and fugue in the second semester. Prerequisite: Music 11-12. 6 s.h. (E)

MR. BRUINSMA

**71-72. Analysis of Form.**—The structure of homophonic and polyphonic compositions analyzed in detail. The functions of phrases, sentences, and themes in the construction of various harmonic forms. The combination of these forms into cyclic works such as sonatas and symphonies. Forms of program music. Prerequisite: Music 11-12. 6 s.h. (E)

MR. BRUINSMA

**111-112. Harmony.**—The principles of composition from the standpoint of the composer. Proficiency in harmonization of melodies, modulation, ornaments, and original work in the smaller forms is required. Continuation of aural training. Prerequisite: Music 11-12. 6 s.h. (E)

**121-122. Orchestration and Conducting.**—The history, technical restrictions, and orchestral use of the instruments of the modern orchestra. Scores will be studied and arrangements made by the class. One period a week will be devoted to the technique of the baton, vocal and instrumental score reading and conducting with records and with campus musical groups and with groups in the public schools. Prerequisite: Music 11-12. 6 s.h. (E)

### HISTORY AND CRITICISM

**81-82. Introduction to Musical Literature.**—An historical survey of the evolution of music from ancient times to the present. An elementary study of the basic principles of form and of musical aesthetics to serve as a basis of criticism. Either semester may be elected separately with the consent of the instructor. 6 s.h. (E)

MR. BROADHEAD



**131. Symphonic Literature.**—The historical background and development of music for the orchestra. A critical and analytical study of orchestral suites, overtures, and symphonies. Scores and records will be used. Prerequisite: Music 81-82. 3 s.h. (E) Mr. BRUINSMA

**132. Symphonic Literature.**—A continuation of Music 131 with emphasis upon the symphonic poem. Prerequisite: Music 131. 3 s.h. (E) Mr. BRUINSMA

**142. Organ Literature.**—Historical development of music for the organ from the sixteenth century to the present. Styles, forms, peculiarities of composition due to the nature of the instrument. A brief introduction on the construction of early and modern organs. Prerequisite: Music 81-82. 3 s.h. (W) [Not offered in 1939-40] Mr. BROADHEAD

**197. Bach.**—A detailed study of Bach, his times and his music. Prerequisite: Music 81-82. 3 s.h. (E) Mr. BROADHEAD

**198. Beethoven.**—A detailed study of Beethoven, his times, and his music. Prerequisite: Music 81-82. 3 s.h. (E) Mr. BROADHEAD

#### MUSIC EDUCATION

**101. Vocal Methods.**—A study of materials and methods of teaching vocal music in public schools. Treatment of the child voice, rote singing, sight singing, chord singing, voice testing, balance, organization, and supervision. Observation of work done in the public schools. High-school glee club literature. Prerequisite: Music 11-12. 3 s.h.

**102. Instrumental Methods.**—A study of materials and methods of teaching orchestral instruments, organization, and supervision. Observation of work in the public schools. Literature for band and orchestra. Prerequisite: Music 11-12. 3 s.h.

#### PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. McLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; ACTING PROFESSOR DUBS; PROFESSORS GILBERT AND SMITH; AND ASSISTANT PROFESSOR LEONARD

*For courses marked \* there is a prerequisite of three hours, and those marked † six hours of philosophy: admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.*

**48. Introduction to Logic and Scientific Method.**—A practical study of the general principles of logical thinking: the nature of the logical processes involved in the attainment of knowledge in mathematics, the sciences, history, and philosophy. The character of systematic exposition. Application of the logical processes studied to the field of action. 3 s.h. (W) ASSISTANT PROFESSOR LEONARD

**98. Introduction to Ethics.**—An elementary consideration of some of the important moral problems in the light of philosophical tradition and the science of values. Sophomores and approved Freshmen. First semester (W). Second semester (E). 3 s.h.

PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

**101. Introduction to Philosophy.**—This course is intended to acquaint the student with the nature of philosophical problems. First semester (W) and (E). Second semester (W). 3 s.h.

(W) PROFESSOR WIDGERY (first semester)  
DR. McLARTY (second semester)  
(E) PROFESSOR GILBERT

105. **Introduction to the History of Philosophy: Ancient and Medieval.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. 3 s.h. (w) DR. McLARTY

106. **Introduction to the History of Philosophy: Modern.**—A study of the great philosophical thinkers with special reference to the problems of a philosophy of human life. 3 s.h. (w) PROFESSOR WIDGERY AND DR. McLARTY

108. **Philosophical Ideas in Ancient Greek and Roman Culture.**  
DR. McLARTY

109-110. **Plato.**—*Apology, Crito*, and selections, together with collateral reading in the *Memorabilia* of Xenophon and in the *Clouds* of Aristophanes. **Euripides.**—One play, to serve as an introduction to Greek tragedy. 6 s.h. (w) Greek 107-108. ASSISTANT PROFESSOR WAY

112. **The Development of American Philosophy.**—3 s.h. (w)  
ASSOCIATE PROFESSOR MORGAN

114. **Seventeenth-Century Philosophy, with Special Reference to Spinoza.\***—3 s.h. (E) PROFESSOR GILBERT

119. **Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—3 s.h. (w) DR. McLARTY

121. **The Philosophy of Plato.**—Lectures, readings and reports. Reference will be made to some influences of Platonic modes of thought in English literature. 3 s.h. (w) DR. McLARTY

#### FOR SENIORS AND GRADUATES

201-202. **The Philosophy of Art.**—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. 6 s.h. (E)  
[Not offered in 1939-40] PROFESSOR GILBERT

203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. 3 s.h. (w)† ASSOCIATE PROFESSOR MORGAN

204. **Christian Ethics.**—A historical and systematic study of Christian conceptions of the moral life and its problems. 3 s.h. (w)  
PROFESSOR SMITH

205. **The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. (w)  
[Not offered in 1939-40] PROFESSOR WIDGERY

206. **Modern Political Theory.**—Political theories of the seventeenth, eighteenth, and nineteenth centuries, with a study of their influence upon modern political institutions. 3 s.h. (w) Political Science 224.  
PROFESSOR WILSON

207. **Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century, with emphasis upon concepts of continuing importance. 3 s.h. (w) Political Science 223.  
PROFESSOR WILSON

208. **Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. (w) ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1939-40]

209-210. **The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of a modern philosophy of religion. 6 s.h. (w) PROFESSOR WIDGERY

212. **Psychology of Belief.**—2 s.h. (w) Psychology 228.  
ASSOCIATE PROFESSOR LUNDHOLM

213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. 6 s.h. (E) PROFESSOR GILBERT

215-216. **Plato.**—*Symposium, Protagoras*, and parts of the *Republic*. 6 s.h. (w) Greek 209-210. ASSISTANT PROFESSOR WAY

217. **The Philosophy of Aristotle.\***—Prerequisite: course 105.  
DR. McLARTY

219-220. **The Age of the Renaissance.**—A survey of social and cultural changes in Western Europe from Dante to Erasmus. 6 s.h. (w) History 221-222. ASSISTANT PROFESSOR NELSON

224. **Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h. (w) PROFESSOR WIDGERY

226. **The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. (w)\* ASSOCIATE PROFESSOR MORGAN

227. **Mathematical Logic.**—3 s.h. (w) Mathematics 287.  
[Not offered in 1939-40]

228. **Fundamental Concepts of Mathematics.**—3 s.h. (w) Mathematics 288.  
[Not offered in 1939-40]

229-230. **Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. (w) Physics 213-214.  
ASSISTANT PROFESSORS NIELSEN AND CONSTANT AND DR. MOUZON

231-232. **Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy. 6 s.h. (w) ASSISTANT PROFESSOR LEONARD

234. **Introduction to the Philosophy of Education.**—3 s.h. (w) Education 200. PROFESSOR HOLTON  
[Not offered in 1939-40]

236. **Oriental Philosophy.**—I. Chinese Philosophy. 3 s.h. (w) ACTING PROFESSOR DUBS

238. **Oriental Philosophy.**—II. Indian Philosophy. 3 s.h. (w) PROFESSOR WIDGERY  
[Not offered in 1939-40]

241. **Logic.**—The characteristic structure of a logical system. Forms of propositions and of arguments. Logical relations of propositions. Levels of analysis. 3 s.h. (w) ASSISTANT PROFESSOR LEONARD

242. **Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h. (w) ASSISTANT PROFESSOR LEONARD

244. *European Thought in the Latter Half of the Nineteenth Century, with Special Reference to Nietzsche.*—Studies in the major trends of intellectual life of the period, focussed around the work of a representative thinker. Prerequisite: 6 hours; admission otherwise by permission of the instructor. A reading knowledge of German is desirable. 3 s.h. (w)

ASSOCIATE PROFESSOR MORGAN

245-246. *Philosophical Foundations of Religious Belief.*—6 s.h.

[Not offered in 1939-40]

ACTING PROFESSOR DUBS

248. *Philosophy of Values.*—*First semester.* 3 s.h. (w)

ACTING PROFESSOR DUBS

#### DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

#### DEPARTMENTAL HONORS PROGRAM

a. For admission to candidacy for Honors in philosophy, the student at the close of his Sophomore year must have obtained in that year grades of "A" or "B" in courses which in the judgment of the Departmental Committee justify his admission as a candidate for Honors in philosophy.

b. Candidates for Honors shall complete the following program of work: six credit hours in the following subjects: 1. Introduction to Philosophy; 2. Introduction to the History of Philosophy; 3. Logic and Scientific Methodology; 4. Philosophy of Conduct and Christian Ethics; 5. Aesthetics; or Philosophy of History and Political Philosophy; or Philosophy of Religion. By permission of the Departmental Committee a student may substitute for some of the above-mentioned courses others from the departmental list of courses which may in the opinion of the Committee be more suitable in his individual case.

c. Candidates must complete courses totaling not less than six credit hours in one of the following fields; such courses to be in the 200 series: mathematics, physics, biology, psychology, sociology, economics, political science, psychology of religion.

d. Candidates will be allowed thirteen credit hours for directed and supervised reading around a special subject upon which an essay must be prepared for submission not later than May 15 of the year of graduation.

e. Candidates will be given a comprehensive examination sometime in the latter half of May in the year of graduation; such examination to be five three-hour papers upon subjects selected from those mentioned above, such selection to be by the particular Honors supervisor in consultation with the student.

#### PHILOSOPHY IN DIVISIONAL HONORS

Philosophy is included in the programs for Divisional Honors in:

(A) Humanities (with English Literature and Fine Arts).

(B) Social Sciences (with Economics and Political Science).

For details concerning these Divisional Honors see pages 55-57.

The philosophical section will include supervised readings and tutorial instruction, as follows:

(A) The Humanities:

(1) Greek Philosophy.

(2) Aesthetics.

DR. McLARTY  
PROFESSOR GILBERT

(B) The Social Sciences:

(1) Ethics.

(2) Social Philosophy.

DR. McLARTY  
ASSOCIATE PROFESSOR MORGAN



## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; DRs. BONNER AND HEBB; AND ASSISTANTS

The first course in physics deals largely with those fundamental facts and theories concerning the physical universe that are supposed to be of interest to every intelligent person, and the matter presented is within the comprehension of every college student.

The courses in physics after the first year are designed to meet the needs of three classes of students: (1) those desiring to specialize in physics with a view to work in teaching or investigation; (2) those intending to pursue the study of medicine, biology, or chemistry; (3) those looking forward to the study of engineering. The work of the first year is designed to lay a broad foundation for subsequent study.

An elementary knowledge of the calculus and credit for 12 semester-hours in physics is required in all courses numbered 200 and above.

**1-2. Introductory Physics.**—This course traces historically and experimentally the development of great principles. It stresses neither mathematical processes nor exact measurements. This course is open to Freshmen, Sophomores, and Juniors and meets the general science requirement. Three-hour recitation and two-hour laboratory. 8 s.h. (w & e)

ASSISTANT PROFESSOR CARPENTER; PROFESSORS EDWARDS AND HATLEY; DR. HEBB; AND ASSISTANTS

**17-18. Engineering Physics.**—A course covering the field of general physics with emphasis on fundamental principles. Open only to engineering students. 6 s.h. (e) ASSISTANT PROFESSOR MOUZON; DRs. BONNER AND HEBB

**51-52. General Physics.**—This course is designed for Sophomores and Juniors. It meets in a thorough way the requirements for entrance into the study of medicine and is well suited for the general science student. A limited number of Freshmen who present physics for entrance and who are taking the required mathematics concurrently may be admitted by permission of the instructor. Three lectures and two laboratory periods each week. Prerequisite: Mathematics 7-8 or equivalent. 10 s.h. (w)

PROFESSOR HATLEY; ASSISTANT PROFESSOR CARPENTER; AND DR. BONNER

**57-58. Engineering Physics.**—This course is a continuation of Physics 17-18 open to engineering students upon satisfactory completion of 17-18. Two lectures (e) and one three-hour laboratory (w) each week. 6 s.h.

ASSISTANT PROFESSOR MOUZON; DRs. BONNER AND HEBB

**59-60. Elementary Atomic Physics.**—A lecture and demonstration course dealing in a descriptive manner with modern developments in physics. During the second semester particular emphasis will be placed on the specific applications of the results and methods of modern physics to the fields of medicine and industry. 6 s.h. (w)

PROFESSOR NIELSEN

**61. Mechanics.**—This course covers in a thorough manner the more advanced phases of mechanics which do not require the use of the calculus. Special emphasis is placed on the solutions of problems in mechanics. Prerequisite: a year course in general college physics. 3 s.h. (w)

ASSISTANT PROFESSOR CARPENTER

**62. Heat.**—A study of thermometry, specific heats, thermal expansion, transfer of heat, change in state, saturated vapor, hygrometry, the laws of thermodynamics and pyrometry. Two lectures and one two-hour laboratory per week. Prerequisite: a year course in general college physics. 3 s.h. (w)

ASSISTANT PROFESSOR CARPENTER

**65-66. Intermediate Physics.**—Lecture demonstrations and recitations. A course, to follow Physics 1-2 or its equivalent, covering selected topics and including a more advanced treatment of electricity and light during the first term and in the second term an extended treatment of conduction of electricity through gases, electron theory of matter, x-rays, radioactivity, thermionics, electric waves and photo-electricity. Prerequisite: Physics 1-2 or its equivalent. 6 s.h. (w) PROFESSOR EDWARDS

**103. Electricity and Magnetism.**—An intermediate course covering electrostatics, magnetostatics, current theory, electromagnetism and electron theory, with numerous problems designed to give a thorough familiarity with the subject. Prerequisite: a year course in general college physics. 3 s.h. (w) ASSISTANT PROFESSOR CONSTANT

**104. Electrical Measurements.**—Exact measurements of resistance, current, voltage, inductance and capacity. A fundamental course in electrical engineering or course 103 is a prerequisite. Two lectures and one three-hour laboratory period per week. 3 s.h. (w) PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT

**106. Photography.**—A quantitative study of the more important photographic processes and the application of photography to the sciences and arts. Two lectures and one two-hour laboratory period. Prerequisite: a year course in general physics and the consent of the instructor. 3 s.h. (w) DR. BONNER

**203-204. Analytical Mechanics.**—Geometry of motion; kinematics of a particle and of a rigid body; statics; relative motion; general principles of mechanics. 6 s.h. (w) DR. HEBB

**205-206. Physical Optics.**—This course deals with interference diffraction, polarization, absorption, dispersion; in general it will cover those topics treated in a text such as Wood's *Physical Optics*. Two lectures and one three-hour laboratory period per week. 6 s.h. (w) PROFESSOR HATLEY

**211. History of Physics.**—A rapid review of the fundamental laws of physics developed from the historical point of view. 2 s.h. (w) PROFESSOR EDWARDS

**213-214. Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. (w) ASSISTANT PROFESSOR CONSTANT

**215-216. Atomic Physics Laboratory.**—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. 2 s.h. (w) PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**217-218. Advanced General Physics Laboratory.**—Exact measurements involving the fields of mechanics, electrical measurements, heat, and pyrometry. 2 s.h. (w) PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**219. Vacuum Tubes and Their Application.**—Theory and application of vacuum tube circuits with special emphasis on their use in scientific research. Two hours of lecture and one three-hour laboratory per week. Prerequisites: 8 s.h. of physics, differential and integral calculus. 3 s.h. (w) ASSISTANT PROFESSOR MOUZON

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 6 s.h. (w) ASSISTANT PROFESSOR CONSTANT



## DEPARTMENTAL MAJORS

A. For the degree of A.B.:

*Prerequisites:* Physics 1-2 or equivalent and Mathematics 1-2 or 7-8 or equivalent.

*Major Requirements:* 18 to 24 hours of which six to twelve hours are in courses approved by the department below the 200 level and six to twelve hours in approved senior graduate courses.

B. For the degree of B.S.:

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 or equivalent, Chemistry 1-2 and Mathematics 1-2 or 7-8 or equivalent. (Students who have a considerable number of hours in a closely allied field may with the approval of the department count 51-52 or 57-58 as a major requirement.)

*Major Requirements:* Twenty-four hours of which six to twelve hours are in courses approved by the department below the 200 level and twelve to eighteen hours in approved senior graduate courses.

## DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Physics 1-2 or 51-52 or 57-58; Chemistry 1-2 and Mathematics 1-2 or 7-8 or the equivalent.

*Honors Work:* Physics 103-104, 215-216, and 221-222; Mathematics 99-100 and either a course in geology or an advanced course in chemistry, botany, zoology or a mathematics course beyond integral calculus.

In addition, the student will arrange with his Adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work which in general will constitute a survey of the classical and modern aspects of physics. The credit allowed for this may range from 9 to 10 hours depending upon the amount and quality of the work done.

At the end of both the Junior and Senior years the student will be given both an oral and a written examination in the field of physics.

## POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSOR LINEBARGER; DR. SIMPSON

21. **Principles of Government.**—An introductory study of the principles and problems of government in general. Elective for freshmen. 3 s.h. (w & e) DR. GIBSON

22. **Governmental Problems in International Relations.**—An introductory study of current problems of international cooperation in relation to national policies of major powers. Elective for freshmen. 3 s.h. (w & e) DR. GIBSON AND DR. LINEBARGER

61-62. **American Government and Politics.**—A study of the American political system, including the organization and functioning of national, state, and local government in the United States. 6 s.h. (w & e)

PROFESSORS RANKIN AND WILSON; ASSOCIATE PROFESSORS COLE AND SHIPMAN; DR. GIBSON, DR. LINEBARGER, DR. SIMPSON

Course 61-62 is ordinarily taken before any advanced course in political science. Students who have not had course 61-62 or its equivalent may be admitted to advanced courses in the Department with the approval of the instructors concerned.

111. **Contemporary Problems in Far Eastern Politics.**—An introductory survey of international politics in Eastern Asia and the Western Pacific. 3 s.h. (w) DR. LINEBARGER

113. **Colonialism and Nationalism in Northern and Southeastern Asia.**—A study of indirect rule, native institutions, and self-determination in the Asiatic regions indicated. 3 s.h. (w) DR. LINEBARGER

[Not offered in 1939-40]

125. **American Political Parties and Practical Politics.**—A study of the historical development, organization, and methods of political parties in the United States. 3 s.h. (w) ASSOCIATE PROFESSOR COLE

136. **Major European Governments.**—A study of the organization and functioning of the governments of Great Britain, France, Germany, Italy, and Russia. 3 s.h. (w) ASSOCIATE PROFESSOR COLE

[Not offered in 1939-40]

141. **Public Regulation.**—An introduction to the administrative process emphasizing the nature, types and techniques of public activity; and the methods, and problems of protecting the public interest. 3 s.h. (w) ASSOCIATE PROFESSOR SHIPMAN

ASSOCIATE PROFESSOR SHIPMAN

164. **Government Control of Railroads.**—A comparative study of government ownership, operation and regulation of railroads in certain modern states, with primary attention to the powers, activities and inter-relationships of regulatory bodies in the United States. 3 s.h. (w) ASSOCIATE PROFESSOR SHIPMAN

172. **Government and Agriculture.**—A comparative study of national agricultural policies in Great Britain, Germany, Italy, France and the United States in the nineteenth and twentieth centuries. 3 s.h. (w)

[Not offered in 1939-40]

PROFESSOR VON BECKERATH

174. **Politics and Economics.**—An analysis of the influence of politically dominant forces and ideologies upon economic policies in societies of principal Western countries since the seventeenth century. 3 s.h. (w)

PROFESSOR VON BECKERATH

207. **American Constitutional Law and Theory.**—A study of leading principles of American government, as developed through judicial interpretation of the Constitution. 3 s.h. (w) PROFESSOR WILSON

PROFESSOR WILSON

209. **State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h. (w)

PROFESSOR RANKIN

211. **Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea and China from the Chou Dynasty to the present. 3 s.h. (w) DR. LINEBARGER

DR. LINEBARGER

212. **International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. (w)

[Not offered in 1939-40]

DR. LINEBARGER

214. **The Minor States of the Far East.**—A study of the domestic institutions of the minor states of the Far East, and their positions in pre-modern and modern international politics. 3 s.h. (w) DR. LINEBARGER

DR. LINEBARGER

223. **Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h. (w)

PROFESSOR WILSON

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h. (w) PROFESSOR WILSON

**225-226. Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h. (w) ASSOCIATE PROFESSOR COLE

**227-228. International Law and International Organization.**—Elements of international law, and a study of certain international organizations from the point of view of their significance for international law. 6 s.h. (w) PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h. (w) ASSOCIATE PROFESSOR COLE  
[Not offered in 1939-40]

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h. (w) PROFESSOR RANKIN

**241-242. The Administrative Process.**—The function and theory of organization, coordinating functions, delegated legislation, administrative adjudication, the control of administration, public relations, and special problems in regulation, economic balancing and proprietary activities. 6 s.h. (w) ASSOCIATE PROFESSOR SHIPMAN

**244. Administrative Law.**—Public law as applied to the administrative process including the nature of regulatory authority, the status and liability of public officers, administrative tribunals and the judicial review of administrative action. 3 s.h. (w) ASSOCIATE PROFESSOR SHIPMAN  
[Not offered in 1939-40]

**246. Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. 3 s.h. (w) ASSOCIATE PROFESSOR SHIPMAN  
[Not offered in 1939-40]

**271. Socio-Politics and Capitalism.**—Labor and labor policies in Western Europe and the United States from the early nineteenth century to the World War, and socio-political developments in the post-War world. 3 s.h. (w) PROFESSOR VON BECKERATH

**291. Municipal Government.**—A study of general problems relating to the structural system and activities of municipalities in the United States. 3 s.h. (w) PROFESSOR RANKIN

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. (w) PROFESSOR RANKIN

#### WORKING COLLECTION OF GOVERNMENT MATERIALS

It is a policy of the department to gather and classify published and other materials of significance as illustrating actual processes of government. As a step toward the development of a laboratory of government, there has been made available in the general library a working collection of government materials for student use both for general reference and in the handling of assigned individual projects.

## DEPARTMENTAL MAJOR

*Prerequisite:* Political Science 61-62.

*Major Requirements:* Eighteen semester-hours of work in the Department above Course 61-62, including at least nine semester-hours in Senior-Graduate courses. Courses 21 and 22 may not be counted toward a major.

## HONORS WORK

Students who plan to take Honors in Political Science must have Junior standing and must have completed Political Science 61-62 and Economics 51-52 with satisfactory grades. Exceptions may be made in the case of students who are taking Economics 51-52 in their Junior year.

The Honors work will consist of two readings in Political Science and one in Economics. In addition, a thesis will be required. The readings in Political Science will be given during the second semester of the Junior year and the first semester of the Senior year. The reading in Economics may be selected from the offerings in that Department. The thesis will be due on May 15th of the Senior year.

A weight of 15 hours will be given the readings and thesis (6-6-3) in Political Science. The reading in Economics will increase the credit total to 21 semester-hours. The normal course load will be three courses each semester after the first semester of the Junior year, when four courses will be required. With the approval of the Departmental Honors Committee, an additional honors reading may be taken in a related department, with a corresponding reduction in the course requirements.

Oral or written examinations at the end of each reading and a general oral and written examination at the end of the Senior year will be required.

Honors reading in Political Science are as follows:

**Comparative Government.**—The theory and practice of modern European dictatorships and democracies. ASSOCIATE PROFESSOR COLE

**Political Theory.**—A consideration of political theory from the French Revolution to the present, with particular reference to American contributions  
DR. LINEBARGER

## PSYCHOLOGY

PROFESSOR MCDOUGALL, CHAIRMAN;\* ASSOCIATE PROFESSOR ZENER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSOR ADAMS; DRs. MACCOLL (PART-TIME) AND PRATT

**\*\*101. Introduction to Psychology: General Principles of Mental Activity.**—3 s.h. (w & e) Offered in both semesters.

PROFESSOR LUNDHOLM; ASSOCIATE PROFESSOR ZENER; DRs. MACCOLL AND PRATT

**104. Comparative Psychology.**—3 s.h. (w) ASSOCIATE PROFESSOR ADAMS

**107-108. Psychological Analysis of Prominent Characters in Literature.**—Selected Seniors and Juniors only. 2 s.h. (e) PROFESSOR LUNDHOLM  
[Not offered in 1939-40]

**114. Psychology of Personality.**—3 s.h. (w) PROFESSOR RHINE

**115. Introduction to Child Psychology.**—3 s.h. (e)  
ASSOCIATE PROFESSOR ADAMS AND DR. MACCOLL

\* Deceased, November 28, 1938.

\*\* This course is a prerequisite for all other courses in psychology. It is not open to students of lower standing than Juniors, except Sophomores who have made an average grade of "B" or better.

201. Social Psychology.—3 s.h. (E) ASSOCIATE PROFESSOR ADAMS
202. Psychology of esthetics.—3 s.h. (w) PROFESSOR LUNDHOLM
204. Psychology of Motivation.—3 s.h. (E) ASSOCIATE PROFESSOR ZENER
207. Psychology of Memory, Perceiving, Thinking.—Experimental and theoretical contributions to the psychology of memory, perceiving, thinking. 3 s.h. (E) ASSOCIATE PROFESSOR ZENER
- In 1939-40 this course will be offered in the spring semester only.*
209. Experimental Methods in Human Psychology.—Laboratory and lectures. Seniors with permission of instructor. 4 s.h. (E) ASSOCIATE PROFESSOR ZENER
211. Physiological Psychology.—Seniors with permission of instructor. 3 s.h. (E) ASSOCIATE PROFESSOR ZENER  
[Not offered in 1939-40]
212. Developmental Psychology.—(Psychology of Childhood and Youth.) 3 s.h. (w) PROFESSOR \_\_\_\_\_
216. Seminar in Comparative Psychology.—2 or 3 s.h. (E) ASSOCIATE PROFESSOR ADAMS
217. Gestalt Theory.—3 s.h. (E) ASSOCIATE PROFESSOR ADAMS  
[Not offered in 1939-40]
219. History of Psychology.—2 s.h. (w) PROFESSOR McDUGALL\*
223. Abnormal Psychology.—3 s.h. (w) PROFESSOR LUNDHOLM
226. Contemporary Schools of Psychology.—3 s.h. (w) ASSOCIATE PROFESSOR ZENER  
[Not offered in 1939-40]
228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1939-40]
229. Seminar in Child Psychology.—2 or 3 s.h. PROFESSOR \_\_\_\_\_
- 231-232. Introduction to Research.—Open to Seniors after consultation with the staff member supervising the research. 2 or 3 s.h. PROFESSORS McDUGALL,\* LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER
233. Social Psychology of Value and Valuation.—2 s.h. (w) PROFESSOR McDUGALL\*

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2 or equivalent courses in biology.

*Major Requirements:* Eighteen semester-hours in Psychology including Psychology 101 and at least six hours in Senior-Graduate courses. The student is advised to consult with some member of the Department in planning his course.

#### DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in psychology, the student must have completed Psychology 101, Zoology 1 and 2, or approved equivalents.

Of the twenty-four hours required in Psychology, nine will consist in supervised readings and the preparation of a special paper or experimental investigation. The related work, also to be planned in consultation with the

\* Deceased, November 23, 1938.



Departmental Honors Advisor, will involve concentration in the humanities, social sciences, or natural sciences, depending on the interest of the student.

At the end of the Senior year a comprehensive written and oral examination will be given.

## RELIGION

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CRUM, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BRANSCOMB, CANNON, GARBER, HICKMAN, ORMOND, ROWE, RUSSELL, SMITH, AND SPENCE; ASSISTANT PROFESSORS CLARK, PETRY, AND STINESPRING; DR. OUTLER; MRS. SPENCE

The courses approved to fulfill the requirement in Religion are: 1-2, 51-52, 101-102, 103-104, 105-106, 115-116, 163, 167, 169-170, 181-182, 203-204, 213-214, 270, 275-276, 284, 285. Philosophy 119 (Fundamentals of Christian Morality), 203 (Philosophy of Conduct), 204 (Christian Ethics) may be taken to fulfill the requirement.

1. **The English Bible.**—Survey of the contents of the historical and prophetic books of the Old Testament with particular reference to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W) PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, DR. OUTLER, AND MRS. SPENCE

2. **The English Bible.**—Study of the Psalms, wisdom literature, and the literature of the New Testament with special attention given to the literary, historical, and religious values. Required of all students majoring in religion, and is open to others as an elective in the Freshman year. 3 s.h. (E & W) PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSOR CRUM, DR. OUTLER, AND MRS. SPENCE

51. **The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. For Sophomores; not open to students who have had Religion 1. 3 s.h. (E & W)

PROFESSOR SPENCE; ASSISTANT PROFESSOR PETRY;  
DR. OUTLER AND MRS. SPENCE

52. **New Testament Life and Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. For Sophomores; not open to students who have had Religion 2. 3 s.h. (E & W)

PROFESSOR SPENCE; ASSISTANT PROFESSOR PETRY;  
DR. OUTLER AND MRS. SPENCE

101. **The Social Teachings of the Prophets and Jesus.**—A study of the social teachings of the Old Testament prophets and of the social ideals of Jesus as they appear in the four gospels. 3 s.h. (W) PROFESSOR ORMOND

102. **The Christian Church in the Social Order.**—This course will deal with the Christian Church in its service to society and its relation to other social institutions. 3 s.h. (W) PROFESSOR ORMOND

103. **The Prophets of the Old Testament.**—In this course a study is made of the history and nature of prophecy, with particular attention being given to the messages of the outstanding pre-exilic literary prophets. 3 s.h. (W)

PROFESSOR MYERS



104. **The History and Religion of the Jews to the Roman Period.**—The work in this course is based largely on exilic and post-exilic prophecy, the wisdom literature, and the earlier apocalyptic and apocryphal literature. 3 s.h. (w) PROFESSOR MYERS

[Not offered in 1939-40]

105. **Religion in the Old Testament.**—A study of vital religious faith in Israel in relation to the political, social, and economic life of the times as that faith is reflected in the writings of the Old Testament. 3 s.h. (w) PROFESSOR ROWE

106. **Religion in the New Testament.**—A study of the New Testament writings as the recorded expression of the religious thought and experience which appeared in connection with the person, message, and work of Jesus; and the missionary activity of the early church. 3 s.h. (w) PROFESSOR ROWE

115. **The Life of Jesus.**—A study of the period in which Jesus lived and the record of his life as given in the Synoptic Gospels. 3 s.h. (w) (Old number S215.) PROFESSOR MYERS

116. **The Teachings of Jesus.**—An interpretation of the teachings of Jesus as recorded in the Synoptic Gospels. 3 s.h. (w) (Old number S216.) PROFESSOR MYERS

[Not offered in 1939-40]

163. **Religious Education of Children.**—An analysis of the religious life, interests and capacities of children; including a study of the problems, objectives, methods, and materials involved in teaching religion to children. Directed to the needs of the lay workers in the church. 3 s.h. (E) MRS. SPENCE

167. **Contemporary Religious Problems.**—A course that deals with the main interests of life from the standpoint of their social and religious significance. 3 s.h. (w) PROFESSOR SPENCE

169. **Character Problems.**—Problems of youth in character building. 3 s.h. (w) ASSISTANT PROFESSOR CRUM

170. **Religion and the Modern Home.**—A study of the American home in its contemporary social and religious aspects. 3 s.h. (w) ASSISTANT PROFESSOR CRUM

181. **The Nature and Early Development of Religion.**—Introduction to the early history of religion, the beliefs and practices of the more primitive peoples, and the religious life of the ancient world. For Juniors and Seniors. 3 s.h. (w) PROFESSOR CANNON

182. **Founders and Literatures of Great Religions.**—Biographical and historical studies in the lives and times of Lao-tze, Confucius, Mahavira, Buddha, Nanak, Zoroaster, Mohammed, Jesus, and Paul, together with readings in the sacred writings of the world's religions. For Juniors and Seniors. 3 s.h. (w) PROFESSOR CANNON

203-204. **Introduction to the Old Testament.**—The origin, literary form, and contents of the books of the Old Testament in their historical setting. 6 s.h. (w) PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING

213-214. **The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given the creation of the literature of the New Testament. 6 s.h. (w) PROFESSOR BRANSCOMB

**SR.270. Masterpieces of Great Religious Literature.**—This course is devoted to the religious thought in the literature from the second to the twentieth centuries, with special attention given modern religious poetry. 3 s.h. (w)  
PROFESSOR SPENCE

**275. Introduction to the Psychology of Religion.**—Study of the major factors of religious experience, together with conditions bearing upon its genesis and growth. 3 s.h. (w)  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**276. Advanced Psychology of Religion.**—Psychological study of such problems as worship, prayer, and various types of belief. Some attention to special problems. Prerequisite: course 275 or its equivalent. 3 s.h. (w)  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**284. Comparative Religion.**—The ideas of God, sin, salvation, the future life, and ethics in the religions of the world. Prerequisite: 181, 285, or equivalent. (Old number 384.) 3 s.h. (w)  
PROFESSOR CANNON

**285. The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. 3 s.h. (w)  
ACTING PROFESSOR DUBS

**Philosophy 98. Introduction to Ethics.**—First semester (w). Second semester (E). 3 s.h. PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

**Philosophy 119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.**—3 s.h. (w)  
DR. McLARTY

**Philosophy 203. The Philosophy of Conduct.**—(See the Department of Philosophy for description.) 3 s.h.  
ASSOCIATE PROFESSOR MORGAN

**Philosophy 204. Christian Ethics.**—(See the Department of Philosophy for description.) 3 s.h.  
PROFESSOR SMITH

#### ELECTIVE COURSES

*All courses listed as acceptable in fulfilling the requirement in the Department of Religion are also open as electives for other students, with the exception of courses 1-2 and 51-52. After the requirements in religion have been met, consent of the instructor must be secured to be admitted to the other courses in the group offered to meet the requirements in the Department.*

**131-132. American Christianity.**—The aim of this course is to trace the growth of the different branches of the Christian Church in the United States, Canada, and Hispanic America. Prerequisite: History 1-2 or its equivalent. 6 s.h. (w)  
PROFESSOR GARBER  
[Not offered in 1939-40]

**201-202. Introductory Hebrew.**—A study in the forms of the Hebrew language with reading of selected Old Testament narratives. 6 s.h. (w)  
ASSISTANT PROFESSOR STINESPRING

**SR.211-212. Hellenistic Greek.**—A course for students who wish to begin the study of New Testament Greek. 6 s.h., provided the student takes six semester-hours in New Testament Greek the following year. 6 s.h. (w)  
ASSISTANT PROFESSOR CLARK

**217. The New Testament in Greek.**—Rapid reading in Greek text of the New Testament. Prerequisite: six semester-hours' study of the Greek language. 3 s.h. (w)  
ASSISTANT PROFESSOR CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. 3 s.h. (w)  
ASSISTANT PROFESSOR CLARK

**219. Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. 3 s.h. (w) PROFESSOR MYERS

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. 3 s.h. (w)  
[Not offered in 1939-40] ASSISTANT PROFESSOR CLARK

**223. Church History to the Reformation.**—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. 3 s.h. (w)  
ASSISTANT PROFESSOR PETRY

**224. History of the Evangelical Movement.**—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. 3 s.h. (w) PROFESSOR GARBER

**261. Foundations of Religious Education.**—A study of the fundamental conceptions underlying the theory of Christian education, including social, psychological, and theological aspects. 3 s.h. (w) PROFESSOR SMITH

**262. Organization of Religious Education.**—The development of a system of organization and administration based upon constructive educational theory, and embracing week-day as well as Sunday agencies of religious education. 3 s.h. (w) PROFESSOR SPENCE

**263. Curriculum of Religious Education.**—Educational conceptions of the curriculum, values and uses of current curricula, principles and techniques of curriculum construction. 3 s.h. (w) PROFESSOR SPENCE

**SR.265. Religious Drama.**—A historical survey of the relation between religion and drama, a study of the uses and underlying principles of religious drama, and a critical examination and interpretation of selected dramatic productions. 3 s.h. (w) PROFESSOR SPENCE

**266. Educational Aspects of Worship.**—A study of worship in its bearing upon the educational function of the Christian religion. Students admitted on consultation. 3 s.h. (w) PROFESSOR SMITH  
[Not offered in 1939-40]

**267. Technic of Teaching Religion.**—Objectives and principles of the teaching process, including a discussion of the major types of educational procedure. 3 s.h. (w) PROFESSOR SPENCE  
[Not offered in 1939-40]

**SR.268. Religious Drama Construction and Production.**—Project work in the creation and production of religious drama and pageants. Practice in the selection, staging, lighting, and direction of religious plays. Construction of dramatic programs of worship. 3 s.h. (w) PROFESSOR SPENCE

**281. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism, and Christianity, the object being to trace the historical development of each religion. 3 s.h. (w) (Old number 282.) PROFESSOR CANNON

**283. Expansion of Christianity.**—The spread of Christianity as interpreted in the light of political, social, economic, and other factors. 3 s.h. (w)  
[Not offered in 1939-40] PROFESSOR CANNON

**286. The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. 3 s.h. (w)  
[Not offered in 1939-40] PROFESSOR CANNON

**288. Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 181-182. (Old number 384.) 3 s.h. (w)  
 PROFESSOR CANNON  
 [Not offered in 1939-40]

**289. Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 181-182. (Old number 383.) 3 s.h. (w)  
 PROFESSOR CANNON

#### DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2.

*Major Requirements:* A major in the Department of Religion consists of twenty-four semester-hours of work, exclusive of courses primarily for Freshmen, eighteen semester-hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

#### DEPARTMENTAL HONORS

For admission to candidacy for Honors in the Department of Religion the student must have completed either Religion 1-2 or 51-52 with a grade of "B" or better in these courses, and have no grade of "D" in other subjects taken in the Freshman and Sophomore years.

Candidates for Honors shall complete the following: at least eighteen semester-hours of work in the regular curriculum courses of this Department, six semester-hours of which must be of Senior-Graduate level; twenty-one semester-hours of regular curriculum courses in related departments; Honors readings and tutorial work equivalent to ten semester-hours of course work.

The student in the Honors course shall prepare during the first year a preliminary report upon some subject embraced in his Honors readings. The following year, he shall prepare a more complete report or essay.

The final examination will be both oral and written, covering the general field of the candidate's study and the special field in which he has done his Honors readings.

#### ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; ASSISTANT PROFESSOR HASBROUCK, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, QUINN, REID, AND YOUNG; DR. AVILÉS AND DOW, MME. DOW, MISS RAYMOND, MR. SINGER  
 (PART-TIME); AND ASSISTANTS

The courses in French from 1 to 52, inclusive, 57-58, and 87-88 are for the general student. They give a reading knowledge of standard French and furnish an introduction to French letters. Courses 55-56, 107, 127-128, and 217 offer training in the French language. The literary courses are devoted to the systematic study of classical and modern French literature. Advanced students are offered an introductory course in Old French and Old French literature. Those planning to teach will find in course 218 a treatment of the teaching of French.

The course in Italian includes the reading of Dante's *Inferno*.

The courses in Spanish from 1 to 66 inclusive are for the general student. Their objective is the attainment of ability to read the language with sufficient ease to be able to interpret standard literary Spanish. Course 253 offers further training in the oral use of the language. Course 254 discusses problems and

materials incident to the teaching of Spanish. The remaining courses are devoted to the interpretation of modern and classic Spanish and Spanish-American literature.

## FRENCH

**1-2. Elementary French.—6 s.h. (W & E)**

ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR BRIDGERS; DR. DOW

**3-4. French Prose.—Prerequisites: French 1 and 2, or two years of high-school French. 6 s.h. (W & E)**

PROFESSORS COWPER, JORDAN, AND WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS BRIDGERS, DAVIS, AND QUINN; DR. DOW, MISS RAYMOND, AND MME. DOW

**51-52. Introduction to French Literature.—Prerequisites: French 3 and 4 or equivalent. 6 s.h. (W & E)**

PROFESSORS COWPER AND JORDAN; ASSISTANT PROFESSORS BRIDGERS, DAVIS, QUINN, AND YOUNG; DR. DOW AND MISS RAYMOND

**57-58. Introduction to French Literature.—**Identical in content with 51-52 this course has less translation into English. Various exercises will replace translation. Considerable use will be made of French in conducting the course. Open to those whose previous training or superior record indicates that they are qualified. Prerequisites: French 3 and 4 or equivalent. 6 s.h. (W & E)

PROFESSOR WEBB AND ASSOCIATE PROFESSOR WALTON

*Students will take course 51-52 or 57-58. They will not take both 51 and 57 or 52 and 58. Total credit in these courses is limited to six semester-hours. They are the basic prerequisites to all higher courses.*

**55. Exercises in Spoken French.—1 s.h. (W & E) MME. LINIÈRE DOW****56. Exercises in Spoken French.—1 s.h. (W & E) MME. LINIÈRE DOW****87-88. French Writers of the Romantic Movement.—6 s.h. (E)**

ASSISTANT PROFESSOR DAVIS

*May not be taken with or in addition to course 108.*

**107. French Composition.—3 s.h. (W & E)**

PROFESSOR COWPER AND MISS RAYMOND

**108. The French Romantic Movement.—3 s.h. (W & E)**

PROFESSOR COWPER AND MISS RAYMOND

*May not be taken with or in addition to course 87-88.*

**109. Molière.—3 s.h.**

PROFESSOR WEBB

[Not offered in 1939-40]

**110. Poems of Victor Hugo.—3 s.h.**

PROFESSOR WEBB

[Not offered in 1939-40]

**111. French Drama since 1850.—3 s.h. (E) ASSISTANT PROFESSOR YOUNG****112. French Drama since 1850.—3 s.h. (E) ASSISTANT PROFESSOR YOUNG****115-116. Balzac and His Age.—6 s.h. (W)**

ASSISTANT PROFESSOR BRIDGERS

**127. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h. (W) MME. LINIÈRE DOW**



128. **Advanced French Composition.**—Prerequisite: French 107 or equivalent. 3 s.h. (w)  
MME. LINIÈRE DOW

213. **French Classicism.**—From Malherbe to La Bruyère. 3 s.h. (w)  
ASSOCIATE PROFESSOR WALTON

214. **French Classicism.**—From La Bruyère to the Encyclopedists and Beaumarchais. 3 s.h. (w)  
ASSOCIATE PROFESSOR WALTON

215-216. **The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. Prerequisite: 6 s.h. from courses 87-88, and 108 to 116, inclusive. 6 s.h. (w)  
PROFESSOR JORDAN

217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; diction; aural comprehension. Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. (w)  
PROFESSOR WEBB

218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment and future application. Prerequisite: course 107 or equivalent. 3 s.h. (w)  
PROFESSOR WEBB

219. **Old French.**—An introduction to the Old French language and literature. 3 s.h. (w)  
PROFESSOR COWPER  
[Not offered in 1939-40]

220. **Old French.**—Types of Old French literature. 3 s.h. (w)  
PROFESSOR COWPER  
[Not offered in 1939-40]

227. **French Poetry since Théophile Gautier.**—Parnassianism and Symbolism. 3 s.h.  
ASSOCIATE PROFESSOR WALTON  
[Not offered in 1939-40]

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h.  
PROFESSOR COWPER  
[Not offered in 1939-40]

233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. 3 s.h.  
ASSOCIATE PROFESSOR WALTON  
[Not offered in 1939-40]

#### ITALIAN

181-182. **Italian.**—Introduction to the language, modern Italian readings, and Dante's *Inferno*. 6 s.h. (w)  
PROFESSOR WEBB

#### ROMANCE LITERATURE IN TRANSLATION

191-192. **Masterpieces of Romance Literature in English Translation.**—Dante, Boccaccio, Petrarch, Machiavelli, Rabelais, Montaigne, Descartes, Cervantes, Calderón, Quevedo, Racine, Corneille, Molière, Voltaire, and Rousseau. 6 s.h. (w)  
ASSISTANT PROFESSOR HASBROUCK

#### SPANISH

1-2. **Elementary Spanish.**—6 s.h. (w & e)  
ASSISTANT PROFESSORS DAVIS, HASBROUCK, QUINN,  
AND YOUNG; DRs. AVILÉS AND DOW



**3-4. Intermediate Spanish.**—Prerequisites: Spanish 1-2 or two years of high-school Spanish. 6 s.h. (w & e)

ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS  
BRIDGERS, HASBROUCK, AND QUINN; DR. AVILÉS

**65. Introduction to Modern Spanish Literature.**—Prerequisites: Spanish 3-4 or equivalent or Spanish 101-102 with permission. 3 s.h. (w & e)

ASSOCIATE PROFESSOR LUNDEBERG; DR. AVILÉS

**66. Introduction to Spanish Literature of the Golden Age.**—Prerequisites: Spanish 65 or equivalent. 3 s.h. (w & e)

ASSOCIATE PROFESSOR LUNDEBERG; DR. AVILÉS

**101-102. Elementary Spanish.**—An intensive course for Juniors and Seniors. 6 s.h. (w)

ASSISTANT PROFESSOR HASBROUCK

[Not offered in 1939-40]

**155. Literatura Hispanoamericana: La Pampa, Payadores y Gauchos en la Literatura Americana.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 3 s.h. (w)

**156. La Tendencia Modernista en la Literatura Americana.**—Prerequisites: Spanish 155 or equivalent. 3 s.h. (w)

**157-158. The Modern Spanish Theater.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 6 s.h. (w)

ASSISTANT PROFESSOR HASBROUCK

[Not offered in 1939-40]

**253. Spanish Phonetics.**—The sounds of the Spanish language; sound changes; exercises in transcription; regional pronunciation; intonation; limited use of electrical recording machines. Prerequisites: Spanish 65-66. (Enrollment limited to fifteen students.) 3 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

**254. Materials and Methods.**—History of the teaching of Spanish; survey of methods and objectives; evaluation of representative texts; tests, word-counts and other auxiliary devices; the course of study. Prerequisites: Spanish 65-66. 3 s.h. (w)

**261-262. The Modern Spanish Novel.**—The evolution of the novel from the *costumbrista* writers through the generation of '98. Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 6 s.h. (w)

[Not offered in 1939-40]

ASSOCIATE PROFESSOR LUNDEBERG

**265. Golden Age Literature: Cervantes.**—The *Novelas ejemplares*; analytic study of the tales, their style, literary importance and influence. Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

**266. Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age, with references to use of this *motif* by later writers. Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h. (w)

ASSOCIATE PROFESSOR LUNDEBERG

#### DEPARTMENTAL MAJORS

*Prerequisites:* French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

*Major requirements:* In French, twenty-four semester-hours of work must be completed in courses above the Freshman level, and must include: (a) six

semester-hours from the group 107, 127-128, 217; (b) six semester-hours of literature in courses numbered 213 to 232. Students desiring the recommendation of the Department for the teaching of French will take in addition French 218.

In Spanish, twenty-four semester-hours must be completed as follows: eighteen semester-hours in the courses 65-66, 155-156, 157-158; six semester-hours from the group 253-254, 261-262, 265-266.

## SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS GROVES AND HART; ASSISTANT PROFESSOR THOMPSON

**91-92. General Sociology.**—The same as course 101, except that it gives an additional hour of credit to permit the introduction of more concrete materials, and admits Sophomores with an average grade of not less than "C" during the Freshman year. **6 s.h. (E)** PROFESSOR JENSEN

**101. General Sociology.**—An introduction to the scientific study of social life; its origin, evolution, and organization as illustrated by the study of a number of concrete social problems. This course is repeated each semester and is prerequisite to all other courses in sociology. **5 s.h. (w)**

PROFESSOR ELLWOOD

**102. General Sociology.**—The same as course 101. **5 s.h. (w)**

PROFESSOR ELLWOOD

**109. Sociology of the South.**—The developing regional organization of the world economy studied with especial reference to Southern life and problems. A survey of the composition and distribution of population, races and race relations; economic conditions underlying population, race factors, and culture of the South. Primary emphasis is upon social change and its control. Prerequisite: course 91-92 or 101. **3 s.h. (w)**

ASSISTANT PROFESSOR THOMPSON

**111. Introduction to Child Welfare.**—A special course in child welfare for Juniors and Seniors. Prerequisite: course 91-92 or 101. **3 s.h. (w)**

PROFESSOR JENSEN

**114. Race Relations.**—Against the background of a preliminary study of inter-racial experiences in other parts of the world an effort is made to understand more clearly the racial situation in the Southern States. Prerequisite: course 91-92 or 101. **3 s.h. (w)** ASSISTANT PROFESSOR THOMPSON

**205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92 or 101. **3 s.h. (w)**

PROFESSOR JENSEN

**206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92 or 101. **3 s.h. (w)**

PROFESSOR JENSEN

**212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92 or 101. 3 s.h. (w) PROFESSOR JENSEN  
[Not offered in 1939-40]

**213. Constructive Social Policies.**—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. Prerequisite: course 91-92 or 101. 2 s.h. (w) PROFESSOR JENSEN  
[Not offered in 1939-40]

**219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. Prerequisite: course 91-92 or 101. 3 s.h. (w)  
ASSISTANT PROFESSOR THOMPSON

**220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the farm family, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92 or 101. 3 s.h. (w)  
ASSISTANT PROFESSOR THOMPSON

**227. Emigration and Immigration.**—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organizations in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92 or 101. 3 s.h. (w) PROFESSOR JENSEN  
[Not offered in 1939-40]

**231. General Anthropology.**—A study of the evolution of man and of human culture. The prehistoric human types; modern races; the evolution of tools, technology, family life, political institutions, art, and language. 3 s.h. (w)  
PROFESSOR HART

**232. Cultural Anthropology.**—A study of the processes of cultural change. The emergence of magic, religion, morals, and science; invention and diffusion; the dynamics of social change; the role and methods of the social innovator. 3 s.h. (w)  
PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—Present world issues in the light of the trends of human culture and of the dynamic processes through which men may take part in determining the future of civilization. 3 s.h. (w)  
PROFESSOR HART

**234. Social Ethics.**—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men—particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? 3 s.h. (w)  
PROFESSOR HART

**238. The American Indian.**—The origin, history, and culture of the American Indian stocks, with especial reference to those of North America. 3 s.h. (w) [Not offered in 1939-40]

**242. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Prerequisite for undergraduate credit: Sociology 91-92 or 101. 2 s.h. (w) PROFESSOR GROVES (U. N. C.)

**251. Education and Social Control.**—A study of education as an agency of social control and of social progress from primitive times to the present. 2 s.h. (w) PROFESSOR ELLWOOD

#### DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 and twelve additional hours in the Department.

#### ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; ASSOCIATE PROFESSOR GRAY, DIRECTOR OF UNDERGRADUATE STUDIES; DR. JEFFERS, ADVISER OF UNDERGRADUATE WOMEN; DR.

BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CUNNINGHAM, HALL, HARGITT; DRs. CULBRETH, JOHNSON; AND ASSISTANTS

**1. General Zoology.**—A brief survey of the animal kingdom. 4 s.h. (w & e) DRs. BOOKHOUT AND JEFFERS; DRs. CULBRETH AND JOHNSON; AND ASSISTANTS

**2. Animal Biology.**—A study of the principles of biology as applied to animals. Prerequisite: Zoology 1. 4 s.h. (w & e)

ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS; DRs. BOOKHOUT, CULBRETH, AND JOHNSON; AND ASSISTANTS

**53. Comparative Vertebrate Anatomy.**—A study of the anatomy and evolution of the organ systems of vertebrates. Prerequisites: Zoology 1 and 2. 4 s.h. (w & e) ASSOCIATE PROFESSOR GRAY AND DR. CULBRETH; DR. JOHNSON; AND ASSISTANTS

**92. General Embryology.**—A study of the fundamental principles of embryology as illustrated in the frog, chick, and mammal. Prerequisite: Zoology 53. 4 s.h. (w & e) PROFESSOR CUNNINGHAM AND DR. JEFFERS; DR. JOHNSON; AND ASSISTANTS

**109. Evolution.**—The facts and theories of organic evolution. Prerequisite: two years of zoology. 2 s.h. (w) DR. JOHNSON

**110. Introduction to Genetics.**—The principles and practical applications of genetics as applied to animals, including man; family and twin studies. Prerequisite: one year of zoology. 2 s.h. (w) DR. JOHNSON

**151. Comparative Physiology.**—The primary functions of animals of all groups and a more detailed study of the physiological processes in mammals. Prerequisite: Zoology 53. 4 s.h. (w) first semester and (e) second semester for women. PROFESSOR HALL AND DR. CULBRETH; AND ASSISTANTS

**156. Vertebrate Histology.**—The microscopic structure of normal tissues and organs of the vertebrate body. Training will be given in the preparation of material for microscopic study. Primarily for major students in zoology and not recommended for pre-medical students since a similar course is given in the first-year medical curriculum. Prerequisite: Zoology 53. One lecture and three laboratory periods. 4 s.h. (w) PROFESSOR HARGITT

**161. Animal Parasites.**—A consideration of animal parasites, with particular emphasis upon those infesting man. Prerequisite: one year of zoology. 4 s.h. (w) PROFESSOR PEARSE

**174. Invertebrate Zoology.**—A study of structure, function, and habits of invertebrate animals under normal and experimental conditions. Field trips will be made to study, collect, and classify animals in their natural habitats. Prerequisites: Zoology 1 and 2. 4 s.h. (w) DR. BOOKHOUT

**204. Advanced Parasitology.**—Lectures, conferences, readings, and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 3 or 4 s.h. (w) [Not offered in 1939-40] PROFESSOR PEARSE

**219-220. Special Problems.**—Seniors who have had proper training may be permitted to carry on special work. Permission must be obtained from the Director of Undergraduate Studies and the instructor under whom the student wishes to work. Not more than 4 s.h. (w) STAFF

**222. Entomology.**—A study of anatomy, physiology, embryology, and classification of insects. Offered in alternate years. Prerequisite: one year of zoology. 4 s.h. (w) ASSOCIATE PROFESSOR GRAY

**224. Vertebrate Zoology.**—A study of life histories, adaptations, ecology, and classification of vertebrate animals. Offered in alternate years. Prerequisite: Zoology 53. 4 s.h. (w) ASSOCIATE PROFESSOR GRAY [Not offered in 1939-40]

**229. Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, and reports. Prerequisites: Zoology 53 and 92. 3 or 4 s.h. (w) PROFESSOR CUNNINGHAM

**256. Seminar: Current Developments in Physiological Zoology.**—Prerequisite: Zoology 151. Open only to Seniors. 2 s.h. (w) PROFESSOR HALL

RELATED COURSES WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

**Botany 101. Principles of Heredity.**—3 or 4 s.h. (w) DR. PERRY

**Botany 202. Genetics.**—4 s.h. (w) DR. PERRY

DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2.

*Major Requirements:* Twenty-four semester-hours including courses 53, 92, and 151. The remaining twelve hours may be from any other courses for which the student is eligible.

DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, and 92 and not less than eight semester-hours of chemistry.

The Honors Program will not necessarily be the same for all students. Courses 151, either 156 or 174, and eight additional hours of zoology are required. From twelve to twenty semester-hours of science other than zoology will be expected; the number of hours and the courses to be taken will depend upon the needs and interests of the student.

Each student will read in such fields as history of biology, zoological theories, or in special fields, and will undertake a special problem. He will meet regularly with his Honors Adviser. He may be asked to prepare written reports on his readings and must present a written report on his problem. Readings and problem may count for nine to twelve semester-hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors Course. At the end of the Senior year a general comprehensive examination covering the entire field of study must be passed.



## GENERAL REGULATIONS

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The academic year is divided into two semesters. The first semester of the academic year 1939-40 begins September 20; the second, February 1. Commencement is held on Monday after the first Sunday in June. Commencement Day, 1939, is June 5.

### TIME OF ENTRANCE

Patrons of the University and students who intend to enter the Freshman Class are reminded that the placement tests are held at the opening of the first semester in September and that this is the proper time to enter. If an applicant for admission cannot come early in the year, he should wait, except in very unusual cases, until the opening of the next semester. It is important that all students be present on the first day of the session, for those who are late incur the penalties described above in this catalogue under the topic "Admission to College" and below under the sub-topic "Course Cards." Students who enter after the beginning of the semester are marked absent in the work they have missed in the courses to which they are admitted, and these absences are counted as other absences from class.

### MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Students whose course cards have been approved in the spring in the manner provided below are given an opportunity during the summer to matriculate by mail for the first semester. No student without a matriculation card is admitted to any class.

### COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office. Students in the Freshman, Sophomore, and Junior classes who do not select their courses for the following year at the time appointed have to pay a fee of \$5.00 to the Treasurer of the University before their course cards may be approved in the fall. The same regulations apply for the second se-

mester. Students whose course cards have been approved but who, for reasons not arising within the University, desire to make a change in the card approved have to pay to the Treasurer a fee of \$1.00 for each change made. No course may be elected later than two weeks after the opening of the semester.

If a student drops a course without permission from the Dean of the College, the grade for that course shall be recorded as "F."

If a student drops with permission a course in which he is failing at that time, the grade for that course shall be recorded as "F," unless in the judgment of the Dean, circumstances do not justify this penalty.

### EXAMINATIONS

Mid-year and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

### REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students (with incomplete grades) who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students (with "X" grades) who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must

repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

### EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester-hours but also in quality-points. Quality-points are the points earned by a student according to his grades, for each semester-hour of credit. The grade "A" gives three quality-points for each semester-hour of credit; the grade "B" two quality-points; the grade "C" one quality-point. The grade "D" carries no credit in quality-points. For the grade "F" one quality-point is deducted for each semester-hour of failure. Credit for 122 quality-points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

### NUMBER OF HOURS OF CLASS WORK

No undergraduate student is allowed to take less than fourteen hours of class work a week without special permission of the Dean.

No undergraduate student may take more than seventeen semester-hours of work in one semester, if he fails to make eighteen quality-points on the work of the preceding semester.

### CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester-hours with an average grade of "C"; as a Junior, fifty-six semester-hours with an average grade of "C"; as a Senior, ninety semester-hours, with an average grade of "C."

### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete his work of the Senior year with an average grade of "C" or better.

### EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester-hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester-hours of work in the first semester.

A student of the Freshman Class is not permitted to re-enter in September, nor to enter Summer School, if he did not pass at least eighteen semester-hours of the work in the previous year; any other student is not permitted to re-enter in September, nor to enter the Summer School, if he did not pass at least nine semester-hours of work in the second

semester of the previous year and a total of eighteen semester-hours of work for the entire year.

### STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester-hours with which they are credited, provided their grades warrant it.

### DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

### CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of a second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

4. Students who during Summer School complete the requirements for a degree shall be classified for graduation as of the year following the Summer School in which the work was completed, and their name shall so appear in the catalogue of the University and on the Commencement Program.

### THE DEAN'S LIST

Students of the Junior and Senior classes who, at the mid-year or final examinations, have attained in Duke University an average of "B" in their courses of the half-year just closed and who have not received a grade of "F" in any course may be placed on the Dean's List for the succeeding half-year. The privilege of the Dean's List is also extended to eligible members of the Sophomore Class during their second semester.

The name of a student may be withdrawn from the List at any time by the Dean, if the student fails to maintain a satisfactory standard of scholarship and conduct.

Students whose names are on the Dean's List will not be subject to the general regulations of the University governing class attendance. This privilege, however, may not be exercised in courses primarily open to Freshmen. Furthermore, such students are required to be present at the meeting of classes immediately before and after any holiday, unless they are excused by the Dean of the College.

If for any reason a student is removed from the Dean's List during, or at the close of, the second semester of his Junior year, his name may not be reinstated on the List.

### CLASS ATTENDANCE AND ABSENCES

Regular and punctual attendance in class work is required of all students not on the Dean's List.

The purpose of the following rules is to provide for those absences made necessary by illness and all other emergencies. Students should reserve these absences for such occasions.

If a student incurs during a semester more than five absences from a three-hour course of study he is carrying (the number of absences allowed in any other course being proportionate to the credit hours the course carries), he shall suffer the loss of quality-points as follows: for the first absence in excess of the number allowed, one; for the second, two; for each absence thereafter, three. Absences due to prolonged illness or to authorized representation of the University in a student activity are excused without effect on grades. However, if other absences, unless unavoidable, are incurred after such excused absences, they will cause the loss of quality-points in accordance with the penalty as defined above.

If the total number of a student's absences in all courses for which he is registered during a single semester amounts to one more than the total number allowed, except under the provisions of the preceding paragraph, his total credit for that semester is reduced by one hour, and for each additional five absences a reduction of one hour of credit is made.

As soon as the number of absences in a single semester course, exclusive of the absences due to prolonged illness and authorized representation of the University, exceeds three times the number of credit hours the course carries, registration in that course is cancelled.

A student is counted absent from meetings of a class held before he matriculates at the beginning of a semester.



All consecutive absences from the University, before or after any holiday, shall be counted as triple absences.

In addition, a student for excess absences may, at the discretion of the Dean, be put on probation or dropped from the College.

Weekly reports of all absences of students from class are made by each instructor and are filed in the office of the Dean. A permanent record of the attendance of each student is kept and becomes a part of his general college record.

The instructor has no authority to excuse a student from class attendance, and it is his duty to report all absences, for whatever cause, to the Dean's Office at the end of each week.

## ASSEMBLY AND CLASS MEETINGS

### TRINITY COLLEGE

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, Sophomores and Advanced Freshmen of Trinity College, and at this period of the day separate meetings of these four groups on the second, third, and fourth Mondays, Tuesdays, or Thursdays of each month. There shall be a class meeting of the Freshman Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Tuesday of each month from 12:30 P.M. to 12:50 P.M.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

### WOMAN'S COLLEGE

An assembly is held each Tuesday, Wednesday, and Thursday in the Woman's College Auditorium. The hour is 12:30 P.M. on Tuesday, 12:40 P.M. on Wednesday and Thursday. Freshmen and transfer Sophomores are required to attend each day, Sophomores on Wednesday and Thursday, and Juniors and Seniors on Thursday. A meeting of the Freshman Class is held each Monday at the assembly hour, and the other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

## SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satis-

factorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be for 1939-40 the passing by the applicant of a minimum of twenty-one semester-hours or thirty quarter-hours of the work of his immediately preceding year in college; thereafter the passing of twenty-four semester-hours or thirty-six quarter-hours of the said work; with the proviso that graduate students and students in schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

### THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association; and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. However, the election of such persons rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

## CONDUCT OF STUDENTS

The University expects of its students loyal and hearty co-operation in developing and maintaining high standards of conduct as well as of scholarship. The University therefore reserves the right, and matriculation by the student is a concession of this right, to ask the withdrawal of any student whose conduct at any time is not satisfactory to the University, even though no specific charge be made against the student.

## ADMINISTRATION OF DISCIPLINE

General oversight of the conduct of students and the administering of discipline are vested in the Dean of the University. The duty of immediate supervision, guidance, and control of the students in each college is entrusted to the Dean of that College. However, through the expressed willingness of the students at the University to assume the responsibility of maintaining high standards of morals and honor at all times, the student body has properly become in a great degree self-governing in this respect. Two councils, one of men and the other of women, each composed of carefully chosen and duly elected representatives of the student body, exercise the authority granted the students to investigate all cases of misconduct, as well as all other cases of violation of proper student standards and traditions and to make recommendations of penalties based on their findings. Occasions seldom occur where such recommendations are not accepted and enforced.

The student councils have been of great help to the administrative authorities of the University. They not merely exercise police authority for restraining and punishing evildoers but also exert a guiding and stimulating influence for the promotion of high ideals of conduct and student relationships.

## REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

(1) The Council on Public Lectures shall provide each year an official calendar.

(2) All public occasions held on either the East or West University Campus are listed for the Weekly Calendar of Duke University in the office of the Department of Public Relations and Alumni Affairs in the West Campus Union. This calendar appears each Saturday, and such notices must be received by 10:00 A.M. on the Friday preceding.

Social or other events held in the West Campus Union must be listed in the office of the Director of Public Relations and Alumni Affairs, and

permission must be secured for such social use of the public rooms in the building.

### REPORTS

Reports of the class attendance records and of the proficiency of each student in studies are sent to his parents or guardians after the examinations at the end of each semester. For Freshmen, mid-semester reports are made.

### HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

### MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmarys (one on each campus) and the University Hospital. It includes hospitalization, (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special, nursing. A charge for board is made at the same rate as in the University dining-halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmarys, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmarys to the University Hospital, where they come under the care of the Staff of the Hospital.

A questionnaire is sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of a hernia, or removal of a chronic appendix.

Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the student.

When the student comes to the University, he is given a careful physical examination. Any physical defects are recorded along with the record of the questionnaire from the family physician. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

#### PHYSICAL EDUCATION AND INTERCOLLEGIATE SPORTS TRINITY COLLEGE

The University requires all students to engage in some type of physical activity for two years or four full semesters. This work consists of participation in natural, practical, physical activity for at least three one-hour periods each week. A credit of six hours, with an average grade of "C," is required in physical education for graduation. The aims of this work are to improve body control and strength through big muscle activities, to stimulate the development of mental and physical alertness, to establish habits of regular exercise, and to give training and experience in various kinds of recreational sports that will be indulged in after the student graduates from the University.

Intramural sports are fostered and promoted in all lines of athletic activity. Meets, tournaments, and leagues are seasonally organized in the different sports. All students in the University are eligible to enjoy the intramural privileges, provided they comply with the intramural rulings. Participation in these activities is entirely voluntary, but is very popular because it provides an opportunity for every man to enter into competition and recreation in those sports which he enjoys most.

The intercollegiate athletic program is controlled entirely by the University and consists of the organization and training of representative Freshman and varsity teams in the following sports: football, basketball, baseball, track, cross country, swimming, boxing, wrestling, tennis, and golf.

#### WOMAN'S COLLEGE

The physical education department aims to give all students an appreciation of the value of activity for general physical well-being, skill in one or more activities which can be enjoyed as recreation after college, a well developed and well coördinated body, and a knowledge of good posture and efficient handling of the body in everyday activities.

To this end, students are allowed to choose from a large number of activities including outdoor individual, dual, and team sports, several types of dancing, swimming, and gymnastics. All Freshmen are expected to take body mechanics in the winter and each student must elect a rhythm, one team sport and two individual or dual sports sometime during the three years of required physical education.

A medical and physical examination is required of each student upon entrance, and follow-up examinations are used as a basis for determining



the type of physical exercise a student should take and any corrective measures needed. Special remedial and corrective classes as well as rest periods are provided for students who cannot engage in the usual sports and activities.

In addition to the required work in physical education, the Dance Club, the Swimming Club, and the Woman's Athletic Association give opportunities for all students to take part in the types of intramural activities most interesting to them. The swimming pool, tennis courts, and other athletic equipment are available to all students for use at specified times.

#### PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College; and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

#### RELIGIOUS EXERCISES

Chapel exercises are conducted on Tuesday, Wednesday, and Friday throughout the academic year at 12:30 P.M. on the campus for men; and, on the campus for women, at 12:30 P.M. on Tuesday and 12:40 P.M. on Wednesday and Thursday. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester.....	3.00
Publication Fee:	
First semester.....	2.50
Second semester.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 156, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262.....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54.....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, 143, 144, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 86, 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 354, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102.....	5.00

\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged with Chemistry 153-154.

Field trip in Geology 51-52 and 101-102 at cost.	
History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physics 57, 58, 62, 104, 205, 206, 215, 216, 217, 218, and 219.....	3.00
Physics 51, 52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### TEACHERS TAKING COLLEGE COURSES

Teachers in nearby schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester-hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures.

### LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	62.50
Double room, per student, per semester—Southgate Hall, East Campus..	50.00
Double room, per student, per semester—Epworth Hall, East Campus..	30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There are also two dormitories on the East Campus used for men—Southgate and Epworth Halls. All of these rooms are equipped for two persons. Students in the Division of Engineering are expected to live in either Southgate or Epworth, which are located near the Engineering Division. Room reservation fees and applications for room assignments should be addressed to the Director in Business Division, East Campus.

Kilgo Quadrangle (eight houses) has been set aside as a Freshman Dormitory. A portion of Southgate Hall has also been reserved for

Freshmen studying Engineering. All Freshmen, except those living at home with their parents, are required to room in one of these dormitories.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

#### DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The Institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damage caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 o'clock A.M. and ceasing at 1:00 o'clock P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts, within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

*Houses*—The seven residence houses on the East Campus are Alsbaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

*Rooms*—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

*Room Furnishings*—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

#### *Room Rent*—

Single room, per student, per semester, Giles, Alsbaugh, Pegram,	
Bassett, Brown and Jarvis Houses.....	\$87.50
Double room, per student, per semester, Giles, Alsbaugh, Pegram	
Bassett, Brown and Jarvis Houses.....	62.50
Single room, per student, per semester, Aycock House.....	75.00
Double room, per student, per semester, Aycock House.....	50.00

*Room Reservation*—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be cancelled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right



to retain their rooms for ensuing year or to sign for new ones in the order of their class, beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 per day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board will not exceed an average of \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is \$112.50 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

### LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.

2. Matriculation and tuition fees are never refunded.

3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.

4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.

5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Through a committee of the Faculty appointed by the President to deal with problems of rendering financial assistance to needy and worthy undergraduates, both of Trinity College and the Woman's College, Duke University annually awards available scholarships, administers loan funds, and supervises student employment.

All student loan funds are kept separate and distinct from all other endowments or holdings of the University. Though some donors or their representatives may and do suggest terms and beneficiaries, no loan is made without the approval and consent of the Committee.

The scholarship funds are, in the main, endowed, though a limited number, and notably the honorary awards in recognition of scholastic merit, are financed through current funds of the University. As with the loan funds, donors of endowed scholarships may, and frequently do, make stipulated terms of the conditions of the award; but in all cases the responsible committee of the University reserves the right to approve and announce all awards. All scholarship endowments are held in trust by the University.

With few exceptions, loan and scholarship awards are limited to the amount of the tuition charges.

Prospective and old students must, if they will stop to consider, realize that no college or university has scholarship, loan, or job resources sufficient to meet all, or even a large per cent, of the requests made. A student, new or old, should realize that before he seeks aid of any institution, his need should be imperative. A student who accepts aid from a college or university when he could have done without it, unwittingly deprives some other would-be student, probably equally as worthy and more needy, of a chance to secure higher education at the institution.

Before applying to any college for aid a student should first have exhausted all means of aid from his parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

A list of undergraduate scholarships and loans, and the procedure and terms of making application, are set forth below.

### SCHOLARSHIP FUNDS

*The Banks-Bradshaw Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Herbert J. Bass Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Christian Education Scholarship* is based on the annual earnings from a \$6,000 scholarship endowment.

*The E. M. Cole Scholarships* are based on the annual earnings from a \$10,000 scholarship endowment. Awards are limited to undergraduate ministerial students.

*The W. L. Cuninggim Scholarship* is based on the annual earnings from a \$7,500 scholarship endowment. Preference, at the request of the donors, is given to students entering Duke University from the Methodist Orphanage of Raleigh, North Carolina.

*The Arthur Ellis Flowers Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Colonel George W. Flowers Scholarship* is based on the annual earnings from a \$5,000 scholarship endowment.

*The B. D. Heath Scholarship* is based on the annual earnings from a \$2,000 scholarship endowment. Preference is given to students from Union County, North Carolina.

*The Judd Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment. In making this award the donor or a representative of his family is to be consulted.

*The Frank S. Lambeth Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The O. G. B. McMullan Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The W. H. Moore Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. A. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. M. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The E. J. Parrish Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The John T. Ring Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The George W. Watts Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The C. E. Weatherby Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

A friend of Duke University has set up a scholarship fund for the use of students preferably from Durham and Perquimans counties of North Carolina. Descendants of the donor, irrespective of their place of residence, are to be given consideration for such awards. The donor has designated that a representative of his family should be consulted in the making of awards. There are at present fifteen of these scholarships. They have no fixed value. Circumstances in all cases determine the amounts of the awards; usually, however, these scholarships are sufficient in amount to cover tuition charges.

A friend of Duke University has set up a scholarship fund the income of which is for the use of students preferably from the states of North Carolina, South Carolina, and Louisiana.

*The Angier B. Duke Memorial, Incorporated*, awards through the Scholarship Committee of Duke University four scholarships with an annual value of \$250 each to undergraduate students. These scholarships are awarded as follows: one on the basis of merit and necessity to an

accredited high or preparatory school graduate entering the Freshman Class of Duke University; and one each to a member of the Sophomore, Junior, and Senior classes on the basis of merit, necessity and worthy individual contributions to university life. This fund is primarily for student loan purposes and is more fully described hereafter under "Loan Funds."

Fifteen honorary scholarships paying tuition are annually awarded to undergraduates. Five are held by members of the Sophomore Class, five by members of the Junior Class, and five by members of the Senior Class. Sophomore scholarships are awarded on the basis of scholastic work of the Freshman year; Junior scholarships on the basis of the scholastic work of the Sophomore year, and Senior scholarships on the basis of the scholastic work of the Junior year. Scholastic attainments and character are the sole bases of these awards.

Where funds are available and the need justifies, Duke University may award in any given year undergraduate scholarships partly or wholly covering tuition charges. Not in excess of fifty such awards shall be made.

Application for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University Station.

An application for a scholarship may not be made formally by a prospective student until application for admission has been made, all necessary credentials presented and notification of acceptance given.

### LOAN FUNDS

*The Angier B. Duke Memorial, Incorporated*, administers through an advisory committee of the officers of the University, a loan fund for students of the University. Only the earnings of this fund are available for loan purposes.

The Committee of University officers also administers other endowed loan funds established for the benefit of students of Duke University. The amount available each year depends on the annual earnings and on the amount of loans repaid.

Although the total amount of loan aid is considerable, the calls for assistance far exceed the amount available for lending purposes each year. The Committee in charge of these funds, therefore, reserves the right to select from the applicants those who in character, personality, general promise, scholastic merit, and degree of financial need, are most deserving of consideration.

The loan funds are administered in accordance with the following regulations:

1. No loan shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an oppor-



tunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

#### EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester-hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality-points per semester-hour are given Honors. All semester-hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester-hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality-points per semester-hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality-points per semester-hour are recommended for a degree *summa cum laude*. All semester-hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

### MEDALS AND PRIZES

*The Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee appointed on the day of Commencement, the best speech, with respect to both declamation and composition.

*The Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

*The Southern History Prize* is awarded each year for the best essay dealing with a subject relating to Southern history. The prize is \$25 in cash donated by an anonymous friend of the University. The competition for the prize is conducted according to the regulations adopted by the Trinity College Historical Society.

*The Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

*The Dr. R. C. Parker Physics Prize.* Dr. R. C. Parker gave to Duke University a silver cup of Chinese manufacture to be used for the encouragement of scholarship in physics. The award is made annually by a committee from the Department of Physics, acting with the President of the University, to that student of Physics 1-2 who by the end of the academic year is judged to have shown the greatest promise as a student of physics. The winner is chosen not only for his mathematical grades

but also for his industry, growth in power of reasoning, originality of point of view, and skill in experimentation. The name of the winner is engraved on the cup which is given into his possession, subject to certain necessary regulations, until the next award is made.

*The Iota Gamma Pi Scientific Prize.* The Iota Gamma Pi Science Fraternity offers an annual prize of \$25 to a member of the Junior Class, majoring in science, who is judged to be the leading student in the scientific courses of the University. The fraternity submits to the judges a list of students eligible for the prize. The committee of award is composed of the Dean of the University and one member each from the Departments of Geology, Botany, Zoology, Chemistry, Physics, and Engineering. The departments concerned choose their own representatives on this committee. The award is made on the following basis: quality of scientific work, 50 points; personality and general ability, 30 points; quality of work in departments other than scientific, 20 points. The president of the fraternity publicly awards the prize in chapel during the second week in May.

*Alpha Kappa Psi Medallion.* This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmow Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Pegram Chemistry Club Prize* will be awarded in the spring of each year for scholarship in chemistry, physics and mathematics. The prize is to consist of one year junior membership in the American Chemical Society, and a one year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University, (2) be taking or have taken a fourth year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the Quality Point average for all courses taken in chemistry, physics and mathematics. In case of a tie equal awards will be given.

## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from Southgate Dormitory.

*The Women's Student Government Association* is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club; Debate Council (Men); Debating Club (Women); Duke Flying Club; Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hesperian Union; Isotes (Independent Social Group—Women); Nereidian Club (Women); Poetry Club; Polity Club; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club; The Ministerial Fellowship; Town Girls' Club; Undergraduate Writers; Women's Athletic Association; and W. H. Pegram Chemistry Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary—Women); Delta Phi Alpha (German); Kappa Delta Pi (Education); Omicron Chi Epsilon (Ministerial); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Sigma Delta Pi (Spanish); Sigma Pi Sigma (Physics); Sigma Xi (Scientific Society); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

### HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Schol-

arship—Women); Red Friars (Leadership—Men); Sandals (Sophomore—Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

#### ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineering; American Society of Civil Engineering; American Society of Mechanical Engineers; Delta Epsilon Sigma (Honorary Engineering Fraternity); The Engineer's Club.

#### MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity); The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's College Orchestra; The Woman's Music Study Club.

#### SOCIAL FRATERNITIES (NATIONAL)

(The Men's Pan-Hellenic Council)

Alpha Tau Omega; Beta Theta Pi Club; Chi Phi Club; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

#### SOCIAL SORORITIES (NATIONAL)

(The Women's Pan-Hellenic Council)

Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

#### STUDENT PUBLICATIONS

(Publications Board)

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (semiweekly); *Duke 'n' Duchess* (Monthly Humor).



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VOLUME 11

April, 1939

NUMBER 5

# BULLETIN OF DUKE UNIVERSITY

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*The Graduate School of  
Arts and Sciences*



1938-1939

ANNOUNCEMENTS FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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Published by Duke University monthly except in September and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.



BULLETIN  
OF  
DUKE UNIVERSITY

THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES



1938-1939  
ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA  
1939



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## UNIVERSITY CALENDAR

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1939

- June 12. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 12. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Tuesday—Independence Day: a holiday.
- July 21-22. Friday, Saturday—Final examinations for Summer School, first term.
- July 24. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 24. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 1-2. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 20. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 21. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 21-23. Thursday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students.
- Oct. 16. Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
- Nov. 6-11. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
- Nov. 13-18. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 7.
- Nov. 15. Wednesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
- Nov. 30. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Monday—Duke University Day.
- Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 10-16. Reading period.
- Jan. 17. Wednesday—Mid-year examinations begin.

- Jan. 29-31. Monday, Tuesday, and Wednesday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.—Registration for second semester.
- Feb. 1. Thursday—Second semester begins.
- March 1. Friday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
- March 4-9. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 27.
- March 11-16. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 4.
- March 23. Saturday, 1:00 P.M.—Spring vacation begins.
- April 1. Monday, 8:00 A.M.—Instruction is resumed.
- April 26-May 10. Reading period.
- May 1. Wednesday—Last day for submitting theses for degree of Doctor of Philosophy.
- May 15. Wednesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
- May 17. Friday—Final examinations begin.
- June 1. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

---

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*Secretary and Treasurer*

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*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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*Librarian*

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---

\* Deceased, November 28, 1938.

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---

*The date denotes the first year of service.*

- |   |                                    |
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† Absent on leave, 1939-40.

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- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry* Hope Valley
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Zoology* 911 West Markham Avenue
- HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.  
*Professor of Economics* 1015 Demerius Street
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELLWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HART, HORNELL, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* University Apartments
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Assistant Professor of Chemistry* 1020 Rose Hill Avenue
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Associate Professor of Anatomy* Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., A.M., S.T.B., Ph.D.  
*Professor of Psychology of Religion* 823 Buchanan Road
- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Instructor in Chemistry* Dixon Road
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Instructor in Chemistry* 10 Powe Apartments
- HOLLINSHEAD, WILLIAM HENRY, (1931) B.A., M.S., Ph.D.  
*Associate in Anatomy* 1006 Urban Avenue
- HOLTON, HOLLAND, (1912) A.B., J.D.  
*Professor of the History and Science of Education* 809 Watts Street

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\* Absent on leave, 1939-40.

- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 1702 Duke University Road
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of English* 121 Pinecrest Road
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon), M.A., Ph.D.  
*Professor of English* Legion Avenue
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pinecrest Road
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture* 908 West Markham Avenue
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Associate Professor of Botany* 922 Urban Avenue
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Philosophy* Pinecrest Road
- LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.  
*Instructor in Political Science* 1306 B Street
- LUNDEBERG, OLAV, (1931) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* 803 Second Street
- MCCREA, FOREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demerius Street
- \*McDOUGALL, WILLIAM, (1927) B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology* 303 Faculty Apartments, East Campus
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Instructor in Philosophy* Hillsboro, N. C.
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of History* 2016 Myrtle Drive
- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Associate Professor of Bacteriology and Associate in Medicine* 2609 Chapel Hill Road
- MAUGHAN, WILLIAM, (1931) B.S., M.F.  
*Associate Professor of Forest Management* 2409 Club Boulevard
- MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.  
*Assistant Professor of Mathematics* 1028 Gloria Avenue
- MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 1210 Vickers Avenue
- MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.  
*Assistant Professor of Physics* 132 Pinecrest Road

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\* Deceased, November 28, 1938.

- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature* 141 Pinecrest Road
- \*NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- NEURATH, HANS, (1938) Ph.D.  
*Associate in Biochemistry* Manchester Apartments
- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 904 Buchanan Road
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Assistant Professor of Botany* 2528 University Drive
- ORMOND, JESSE MARVIN, (1923) A.B., B.D.  
*Professor of Practical Theology* 301 Watts Street
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D.  
*Professor of Zoology* Chelsea Circle, Hope Valley
- PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.  
*Professor of Greek* 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1930) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Assistant Professor of Botany* 1222 Sixth Street
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* 2106 Myrtle Drive
- QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université  
 de Paris  
*Assistant Professor of History* Woodridge Drive, Rockwood
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* Manchester Apartments
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Assistant Professor of Economics* 2030 Englewood Avenue
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 900 West Club Boulevard
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D.  
*Professor of Latin* 1008 West Trinity Avenue
- ROSBOROUGH, RUSKIN RAYMOND, (1925) A.B., A.M., Ph.D., Docteur en philologie classique, Louvain  
*Professor of Latin* 410 Watts Street
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor of Christian Doctrine* 150 Pinecrest Road
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.  
*Professor of Biblical Interpretation* 811 Vickers Avenue
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Assistant Professor of Chemistry* 1604 B Street

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\* Absent on leave, 1939-40.

- SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Associate Professor of Education* Duke University
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- SHIPMAN, GEORGE A., (1938) A.B., Ph.D.  
*Associate Professor of Political Science* 2032 Club Boulevard
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D.  
*Professor of Christian Ethics and Religious Education* 1523 Hermitage Court
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 1601 Lakewood Avenue
- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* 813 Second Street
- SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.  
*Assistant Professor of Economics* 907 Second Street
- STILL, BAYRD, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* 909 Gregson Street
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Assistant Professor of Old Testament* 1107 Urban Avenue
- SWETT, FRANCIS HUNTINGTON, (1930) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Professor of History* 116 Pinecrest Road
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* A-1-B University Apartments
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Pinecrest Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F.  
*Associate Professor of Forest Economics* K-1-A University Apartments
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Instructor in Greek* Duke University
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science*
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L.  
*Associate Professor of Romance Languages* 1012 Green Street
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English* 110 Pinecrest Road



WAY, VERNON ELGIN, (1930) A.B., A.M., M.A. <i>Assistant Professor of Greek</i>	909 Gregson Street
WEBB, ALBERT MICAHAH, (1903) A.B., A.M. <i>Professor of Romance Languages</i>	1017 West Trinity Avenue
WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D. <i>Professor of English</i>	Chelsa Circle, Hope Valley
WIDGERY, ALBAN GREGORY, (1930) B.A., M.A. <i>Professor of Philosophy</i>	152 Pinecrest Road
WILSON, ROBERT NORTH, (1910) A.B., M.S. <i>Professor of Chemistry</i>	822 Third Street
*WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D. <i>Professor of Political Science</i>	717 Anderson Street
WOLF, FREDERICH ADOLPHUS, (1927) A.B., A.M., Ph.D. <i>Professor of Botany</i>	924 Urban Avenue
WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D. <i>Assistant Professor of History</i>	2534 University Drive
YATES, ANNE, (1933) A.B., A.M., Ph.D. <i>Assistant Professor of Biochemistry</i>	Cornwallis Road
YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D. <i>Instructor in Anatomy</i>	1910 University Drive
ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D. <i>Associate Professor of Psychology</i>	416 Carolina Circle

## INDUSTRIAL RESEARCH ASSOCIATES

Darkis, Frederick Randolph B.S., M.S., Ph.D., University of Maryland	Chemistry	1211 Alabama Avenue
McLean, Ruth A.B., Woman's College of the University of North Carolina; A.M., Duke	Chemistry	12 Glenn Apartments

## FELLOWS AND GRADUATE ASSISTANTS

## UNIVERSITY FELLOWS

Abbott, Carol Hope A.B., Macalester College; A.M., University of Minnesota	History	Faculty Apartments
Anderson, Marcia Lee A.B., Bryn Mawr College; A.M., Duke University	English	410 Watts Street
Ayers, John Carr A.B., Kalamazoo College; M.S., Kansas State College	Zoology	1014 Lamond Avenue
Boomhour, Elizabeth Gregory A.B., Meredith College; A.M., Cornell University	Botany	East Campus
Brach, Earl Tilton A.B., Duke University	Greek	1106 Chapel Hill Street
Bright, Robert Dietrich A.B., Dartmouth College	Chemistry	H-2-B University Apartments
Correll, Donovan Stewart A.B., A.M., Duke University	Botany	Harvard University
Foster, Hazel Elizabeth A.B., Hood College; A.M., Duke University	Political Science	102 Faculty Apartments

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\* Absent on leave, second semester, 1939-40.



Garber, Paul Leslie	Religion	2114 Myrtle Drive
A.B., College of Wooster; B.D., Th.M., Louisville	Presbyterian Theological Seminary	
Hamilton, James David Tillman	History	Box 4862, Duke Station
A.B., A.M., University of Mississippi		
Hargreaves, Herbert Walter	Economics	916 Markham Avenue
A.B., University of Nevada; A.M., Clark University		
Kincheloe, Henderson Grady	English	1505 Duke University Road
A.B., University of Richmond; A.M., Harvard University		
Kirby-Smith, John Selden	Physics	307-DD
B.S., University of the South; A.M., Duke University		
Luttrell, Everett Stanley	Botany	1004 Minerva Avenue
B.S., University of Richmond		
Martin, Abram Venable, Jr.	Mathematics	1004 Minerva Avenue
A.B., Presbyterian College		
O'Leary, James John	Economics	201-Q
A.B., A.M., Wesleyan University		
Park, Robert DeForest	Physics	307-DD
A.B., Oberlin College		
Pohl, Herbert Ackland	Chemistry	012-V
A.B., Duke University		
Rein, William Christopher	Education	818 Sixth Street
A.B., Western Maryland College; M.Ed., Duke University		
Wharton, George Willard, Jr.	Zoology	7 Bickett Apartments
B.S., Duke University		

## BROOKINGS-DUKE FELLOW

Guyton, Percy Love	Economics	Brookings Institution
B.S., Mississippi State College; M.B.A., Northwestern University		

## GRADUATE ASSISTANTS

Abramovitch, Benjamin	Chemistry	M-3-A University Apartments
B.S., McGill University		
Austin, Marguerite Zelle	Romance Languages	
A.B., Winthrop College	215 Faculty Apartments	
Ballard, Carroll Chadwick	Economics	M-2-B University Apartments
A.B., Duke University		
Barbour, William Johnston	Botany	1004 Minerva Avenue
A.B., University of North Carolina		
Brandis, Roland Buford, Jr.	Economics	808 Gregson Street
A.B., University of Richmond		
Breslow, David Samuel	Chemistry	307-C
B.S., College of the City of New York		
Brice, Ashbel Green	English	304-B
A.B., A.M., Columbia University		
Cain, Herbert Lloyd	Greek	1012 Urban Avenue
A.B., Southwestern; A.M., Duke University		
Causey, Nelle Bevel	Zoology	306 Faculty Apartments
B.S., College of the Ozarks; A.M., University of Arkansas		

*Collins, Harold Reeves	English	303-A
A.B., Duke University; A.M., Columbia University		
Cook, Ellsworth Barrett	Zoology	107 Epworth
B.S., Springfield College		
†Covington, Philip Stanhope Sheffield	English	819 Third Street
A.B., Emory University		
Cox, Headley Morris, Jr.	English	201-C
A.B., Duke University		
Creegan, Robert Francis	Philosophy	814 Sixth Street
A.B., Marietta College; A.M., Duke University		
Derr, Paul Franklin	Chemistry	307-C
B.S., Duke University		
DeTurk, William Ernest	Zoology	2715 Chapel Hill Road
A.B., A.M., University of Illinois		
‡Doty, Roy A., Jr.	Education	1007 West Trinity Avenue
A.B., A.M., Duke University		
Duke, Kenneth Lindsay	Zoology	2811 Hillsboro Road
A.B., Brigham Young University		
Duncan, Harry Alvin	English	1206 Gregson Street
A.B., Grinnell College		
Dunsky, Irvin	Sociology	1801 Lakewood Avenue
A.B., University of Newark		
Eddy, George Norman	Sociology	K-2-C University Apartments
Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College		
Farley, John Thomas	Economics	116 Buchanan Road
B.B.A., Manhattan College; M.S., Columbia University		
Flemister, Launce Johnson, Jr.	Zoology	1018 Gloria Avenue
A.B., Duke University		
Formwalt, John McClellan	Physics	206-B
A.B., Carson-Newman College		
Garner, William Nelson	Zoology	University Apartments
B.S., Bethany College		
Gilbert, Paul Wilner	Mathematics	103-A
A.B., A.M., University of Rochester		
Harris, Sarah Sanders	Psychology	115 Faculty Apartments
A.B., Woman's College of Furman University; A.M., University of South Carolina		
Heyward, Mary Anne	English	305 Faculty Apartments
A.B., Duke University		
Hopkins, James Franklin	History	University Apartments
A.B., University of Mississippi; A.M., University of Kentucky		
Hudson, Boyd Ellyson, Jr.	Chemistry	1114 Hillandale Road
A.B., Duke University		
Humphreys, Mary Emily	Botany	102 Faculty Apartments
A.B., Western Maryland College; A.M., Duke University		

\* First semester only.

† Second semester only.

‡ A.M. to be conferred June, 1939.

Johnston, George Washington B.S., M.S., Mississippi State College	Botany	704 Buchanan Road
Kuehner, Kenneth George A.B., Allegheny College; A.M., University of Pittsburgh	Education	114 Epworth Hall
Laverty, Carroll Dee A.B., A.M., University of Colorado	English	2500 Club Boulevard
Leath, James Milton A.B., Austin College; A.M., Southern Methodist University	Political Science	2003 Club Boulevard
Limouze, Arthur Sanford A.B., College of Wooster; A.M., Columbia University	English	206-B
McWhite, Elbert Norton B.S., The Citadel; M.S., University of Georgia	Physics	Pickett Road
Mangrum, James Freed B.S., State Teachers College, Memphis, Tennessee; M.S., University of Tennessee	Zoology	Zoology Department
Maryott, Arthur Allen A.B., Duke University	Chemistry	204-B
Miles, Frank Frodsham A.B., University of Washington	Sociology	1803 Lakewood Avenue
Mitchell, Robert Earl A.B., Miami University	English	Box 4798, Duke Station
Morrison, Garrett Weir A.B., Kansas State Teachers College	Psychology	117 Epworth
Mountjoy, Marjorie A.B., Vanderbilt University	Latin	302 Faculty Apartments
Plantinga, Cornelius A. A.B., Calvin College; A.M., University of Michigan	Philosophy	814 Sixth Street
Pope, Marvin Hoyle A.B., Duke University	Religion	317 Anderson Street
Purcell, James Slicer, Jr. A.B., John B. Stetson University; A.M., Duke University	English	1505 Duke University Road
Ramsey, Helen Joyce B.S., M.S., Purdue University	Zoology	Faculty Apartments
Richards, Claud Henry, Jr. A.B., Texas Christian University	Political Science	918 Urban Avenue
Roberg, Jane B.S., University of Washington	Physics	114 Faculty Apartments
Scarborough, Henry Baldwin A.B., Duke University	Physics	Physics Building
Schultz, Harold A.B., Columbia University	History	M-3-A University Apartments
Seward, Donald Monfort A.B., John B. Stetson University; A.M., University of North Carolina	Mathematics	2541 Chapel Hill Road
Seward, William Ward, Jr. A.B., A.M., University of Richmond	English	1603 Duke University Road
Smith, Clarence McKittrick, Jr. A.B., B.Mus., Newberry College; A.M., Harvard University	History	104-A
Stabler, Carey Vitallis B.S., A.M., University of Alabama	History	2009 Pershing Street

Stainbrook, Edward John A.B., Allegheny College	Psychology	1206 Gregson Street
Steele, Alpheus Thornton A.B., Municipal University of Wichita	Economics	812 Sixth Street
Storey, John Stuart A.B., Albion College	Economics	206 Watts Street
Stuckey, James Morlan B.S., Centenary College; A.M., Duke University	Chemistry	Chemistry Department
Talbert, Robert Harris A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri	Sociology	401-G
Turner, Wallace Blythe A.B., Georgetown College; A.M., University of Kentucky	History	206 Atlas Street
Wade, Luther Irwin A.B., Duke University	Mathematics	1106 Chapel Hill Street
Waltcher, Irving B.S., Rhode Island State College	Chemistry	M-2-B University Apartments
Walters, Eleanor Boyd B.S., Mississippi Delta State Teachers College	Mathematics	1111 Urban Avenue
Watts, Hessie Brawley A.B., A.M., Duke University	English	306 Faculty Apartments
Webb, John Maurice A.B., Duke University; A.M., Yale University	History	1017 Trinity Avenue
Wells, Elgin Miles, Jr. A.B., Mississippi College	Physics	M-2-B University Apartments
Wolf, Mary Hubbard A.B., Mount Holyoke College	Zoology	924 Urban Avenue
Young, DeWalt Secrist A.B., Cornell (Iowa) College; A.M., Duke University	Chemistry	01-C

## GRADUATE SCHOLARS

Bennett, Georgia Belle A.B., College of William and Mary; A.M., Duke University	Psychology	506 Watts Street
Bethel, James Samuel B. S. F., University of Washington	Forestry	201 Jones Street
Bond, Esther May B.S., M.S., Florida State College for Women	Psychology	818 Sixth Street
*Bussell, Wilsie Florence †A.B., A.M., Duke University	Romance Languages	816 Watts Street
Carraway, James Blanding A.B., Furman University	Economics	806 Sixth Street
Colley, Frank Harris A.B., Duke University	History	Hope Valley
Colloms, Lester Hubert A.B., Emory and Henry College; B.D., Emory University	Religion	1018 Monmouth Avenue
Decker, John Peter B.S., University of Idaho	Botany	704 Buchanan Road

\* First semester only.

† A.M. to be conferred June, 1939.

Doty, Cornelia Allen	Education	1007 West Trinity Avenue
A.B., Stanford University; A.M., Mills College		
Dowling, Arthur Joseph, Jr.	Philosophy	1010 West Trinity Avenue
A.B., Duke University		
Ewing, Thomas Newell, Jr.	Psychology	117 Epworth Hall
A.B., DePauw University; A.M., Syracuse University		
Gill, Ruth Ellen	Physics	303 Faculty Apartments
A.B., Woman's College of the University of North Carolina		
Hausser, Harry Edward	Philosophy	1026 Monmouth Avenue
A.B., Duke University		
Hibbs, Max Lee	History	116 Buchanan Road
B.S., Alabama Polytechnic Institute		
Jennings, Louis Girton	Latin	201-C
A.B., Franklin and Marshall College		
*Latty, Carolyn Lucile	Romance Languages	2016 Wilson St.
†A.B., Duke University		
Liu, Yung Huo	Psychology	806 Third Street
A.B., Hwa Nan College; A.M., Mills College		
Long, John William, Jr.	History	2414 Club Boulevard
A.B., Dickinson College		
Merrick, Gordon Danforth	Forestry	918 Urban Avenue
B.S., University of Chicago		
Moore, Thomas Hayes	Economics	114 Epworth
B.S., Roanoke College		
Munster, Ralf Friedrich William	Political Science	204-B
A.B., Duke University		
Nelson, Melvin Frederick	Political Science	1411 B Street
B.S., Mississippi State College; A.M., Municipal University of Omaha		
Peck, Robert Lawrence	Chemistry	819 Third Street
B.S., Duke University		
Richards, James Austin, Jr.	Physics	Box 4173, Duke Station
A.B., Oberlin College		
Sindle, Elizabeth Mary	Romance Languages	305 Faculty Apts.
A.B., Bucknell University		
Singer, Armand Edwards	Romance Languages	1013 Lamond Ave.
A.B., Amherst College		
Stewart, Paul Dekker	Political Science	2102 Englewood Ave.
A.B., Hope College		
Sturm, Albert Lee, Jr.	Political Science	116 Buchanan Road
A. B., Hampden-Sydney College		
Tate, Russell Sage, Jr.	Economics	201 Jones Street
A.B., University of Richmond		
Toole, Eben Richard	Forestry	704 Buchanan Road
B.S., New York State College of Forestry; A.M., Duke University		
Wood, Frederic Marcus, Jr.	Latin	1010 West Trinity Avenue
A.B., Adelbert College of Western Reserve University		

\* Second semester only.

† A.B. to be conferred June, 1939.

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## ADMISSION

### TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work he has completed. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 15 for admission in the spring semester.

### TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies



of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department.

### REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. If he expects to work toward an advanced degree, he must consult with the Director of Graduate Studies or his representative in the department in which he proposes to major before registering his courses in the Graduate School Office. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.

### TUITION AND FEES

#### GENERAL FEES IN THE ACADEMIC YEAR

The following table shows the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester. No student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	
Damage Fee, payable annually in September.....	5.00
Medical Fee, per semester.....	1.00
Library Fee, per semester.....	5.00
Commencement Fee, payable once by graduate students in the last semester before a degree is conferred.....	5.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	3.00
	5.00

For further information concerning room-rent, see below.

**SPECIAL FEES**

Graduate students in the sciences are required to pay the special laboratory fees for courses as fixed by the various departments. An administrative fee is charged in connection with special research work in the summer under direction of a member of the Faculty.

**STUDENTS FROM THE UNIVERSITY OF NORTH CAROLINA GRADUATE SCHOOL**

Under an experimental plan of co-operation between the University of North Carolina and Duke University, regular students from the University of North Carolina Graduate School admitted to courses in the Duke University Graduate School pay a registration fee of two dollars and any laboratory or special course fees which are required of all students.

**TRANSCRIPTS**

A student desiring to transfer from Duke University to another institution is entitled to one free transcript of his record. A charge of one dollar, payable in advance, is made for each additional copy. Transcripts of students who enroll in graduate courses only in the summer sessions are issued by the Summer School Office prior to the award of an advanced degree, after which time they can be obtained in the regular way from the Graduate School.

**PAYMENTS TO FELLOWS, SCHOLARS, AND GRADUATE ASSISTANTS**

Payments by the University of stipends to fellows, scholars, and graduate assistants are made in four equal installments on November 25, January 25, March 25, and May 25. Tuition and fees are charged against the stipends.

Fellows and scholars are required to pay the regular tuition and fees and are expected to take a full program of work. Assistants who are permitted to register for only four-fifths of a regular program are charged a proportionate amount of the tuition in addition to the regular matriculation and other minor fees.

**SPECIAL CHARGES FOR TEACHERS AND OTHERS**

For the purpose of aiding North Carolina teachers in their professional preparation, Duke University grants a special tuition rate to members of the faculties of near-by schools and colleges who desire to register during the regular academic session for one or two graduate courses. For such courses a teacher regularly employed and teaching while taking these courses is charged a registration fee of five dollars at the beginning of each semester and a tuition fee of three dollars per semester hour of course credit, together with any regular laboratory fees which may be required in these courses. Under this provision a student may not register for more than seven hours per week.

Employees of Duke University who are paid on a monthly basis throughout the year, ministers of near-by churches, and wives of the Duke Faculty may be included under the above provision by the Dean

of the Graduate School, provided that such persons do not receive residence credit for more than two-fifths of a regular program in meeting the requirements for advanced degrees.

The special tuition rate for teachers does not apply in any case to the holders of fellowships, graduate scholarships, and graduate assistantships annually awarded in the Graduate School nor to teachers on leave of absence and not actually engaged in their teaching at the time of registration.

## LIVING ACCOMMODATIONS AND EXPENSES

### ROOMS

On the West Campus a new Graduate Building will be opened in September, 1939, with accommodations sufficient to meet the requirements of the men in the Graduate School and in the professional schools. Special sections will be reserved for those registered in the Graduate School of Arts and Sciences. On the East Campus a limited number of rooms in the Faculty Apartments is available to women registered in the Graduate School. All students' rooms, both on the Woman's College Campus and on the West Campus, are supplied with all necessary furniture. The student should plan to provide his own towels, sheets, pillows, pillowslips, bedcoverings, and table lamp.

Rooms for men in the Graduate Building on the West Campus vary in rent between \$50.00, \$62.50, and \$75.00 per semester. In the Faculty Apartments on the Woman's College Campus, a single room rents for \$87.50 per semester, a double room for \$62.50 per semester per person.

Rooms are reserved only for students who have been officially admitted to graduate courses by the University. They are rented for no shorter period than one semester. The occupancy of a room for less than one semester will cost the student one dollar each day unless he makes the necessary arrangements with the Director in the Business Division before occupying the room. Men who desire to live in the Graduate Building should make application to Mr. W. E. Whitford, Director of the Business Division; a room reservation fee of \$25.00 is payable at the date of acceptance of his application for admission to graduate courses. Similarly, women who wish to room in the Faculty Apartments should make application to and pay the room reservation fee to Mr. W. A. Tyree, Director of the Business Division. This fee is deducted from the room-rent in the fall and is not refundable unless the request is made on or before July 15. Early application for a dormitory room is essential if the student wants to be assured of living accommodations on the campus.

A resident student who wishes to retain his room for the succeeding year must pay first a reservation fee of \$25.00 to the Treasurer's Office and then notify the office of the Director of the Business Division on or before May 15. All rooms which have not been reserved by that date will be considered vacant for the succeeding year. When a room is once engaged by a student, no change will be permitted except with the consent of the Director of the Business Division.

Graduate students are required to observe the same general regulations as undergraduate students with respect to the use of the rooms. Leaving one room and occupying another without permission is strictly forbidden and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. The use of a room for merchandising of any kind is not allowed.

The University does not assume the responsibility of selecting and assigning roommates, though it will gladly render any assistance possible in the matter.

#### BOARDING ACCOMMODATIONS

Men and women enrolled in the Graduate School will find superior dining facilities in the Unions on the East and West Campuses. The charge for board approximates \$225 per year. The Union on the West Campus has, in addition to the regular dining halls, a coffee shop and a sandwich shop, in which a *la carte* service is available.

#### ESTIMATED EXPENSES IN THE ACADEMIC YEAR

The necessary expenses of a graduate student are moderate. The University dormitories and Unions provide comfortable and wholesome living conditions at a minimum cost. Incidental expenses for recreation, smoking, traveling, clothes, and other items naturally depend on the tastes and habits of the individual. The table below lists the necessary college expenses for one year:

	<i>Low</i>	<i>Moderate</i>	<i>Liberal</i>
Tuition .....	\$200.00	\$200.00	\$200.00
Matriculation .....	50.00	50.00	50.00
Room-rent .....	100.00	125.00	150.00
Board .....	225.00	225.00	225.00
Laundry .....	20.00	25.00	30.00
Books .....	22.50	30.00	45.00
Library Fee.....	10.00	10.00	10.00
Athletic Fee.....	10.00	10.00	10.00
Damage Fee.....	1.00	1.00	1.00
Medical Fee.....	10.00	10.00	10.00
	<hr/> \$648.50	<hr/> \$686.00	<hr/> \$731.00

#### FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be made on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1939-40 are listed below.

**FELLOWSHIPS**

One Angier Duke Memorial Fellowship of one thousand dollars.  
Four University Fellowships of seven hundred and fifty dollars each.  
Ten University Fellowships of seven hundred dollars each.  
Sixteen University Fellowships of six hundred and fifty dollars each.  
One Gurney Harriss Kearns Fellowship in American Religious Thought of seven hundred dollars.

In appointing fellows, preference is usually given to applicants who have completed at least one year of successful graduate work. Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

**GRADUATE SCHOLARSHIPS**

Seven Graduate Scholarships of four hundred and fifty dollars each.  
Twelve Graduate Scholarships of four hundred dollars each.  
Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

**FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY**

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1940, from the Dean of the School of Forestry, Duke University, Durham, N. C.

**BROOKINGS-DUKE CO-OPERATIVE FELLOWSHIPS**

Duke University and the Brookings Institution of Washington, D. C., have entered into a co-operative arrangement for the establishment of fellowships in economics and political science. Each fellowship will be of the approximate annual value of one thousand dollars. The fellowships will be available to third-year or more advanced graduate students, who have either completed the work for the Ph.D. degree, or who wish to do thesis work in Washington. In carrying on their work, students will use the facilities of the Brookings Institution. In most cases unmarried persons will be nominated for these appointments. Further details can be obtained from the Dean of the Graduate School, Duke University, or from the Brookings Institution, Washington, D. C. Graduate students who desire to be nominated by Duke should apply to the departments concerned not later than March 1. Nominations are transmitted to the Brookings Institution by March 15.

**APPOINTMENTS AS GRADUATE ASSISTANTS**

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four-fifths of a normal program of studies.



Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

### REQUIREMENTS FOR THE DEGREE OF MASTER OF ARTS

#### LANGUAGE REQUIREMENTS

Candidates for the degree of Master of Arts are required either to have a reading knowledge of a foreign language evidenced by examination or by transcript showing the completion of the third college year of the language, or to have a reading knowledge of French and German evidenced by examination or by transcript showing the completion of second-year college French and college German. The language presented by the student in the first case above must be acceptable to the department in which he is taking his major work.

#### MAJOR AND MINOR SUBJECTS

As a prerequisite to graduate study in his major subject, a student must have completed a minimum of twelve semester hours of approved *preliminary* courses in that department and twelve additional semester hours either in that department or in related work. Many departments require eighteen semester hours of undergraduate credit. The student therefore should read carefully the special requirements listed by each department.

To obtain the degree of Master of Arts, a candidate must complete satisfactorily twenty-four semester hours of graduate courses and a thesis. The credit for the thesis is six semester hours. Each candidate for the degree must select a major subject, in which the minimum requirement is twelve semester hours and the thesis. A candidate must take six semester hours of graduate work in a minor outside of but approved by the major department, and the remaining six semester hours in the major or minor fields or in a department approved by the major department and by the Graduate School Council. No undergraduate course may be credited toward the degree of Master of Arts.

#### RESIDENCE REQUIREMENTS

The minimum residence requirement of candidates for the Master's degree is one academic year. Often a longer period of residence will prove necessary. Those students who take more than fifteen semester hours of courses in the Summer School must fulfill a minimum residence requirement of thirty-three weeks.



Not more than six semester hours of credit toward the Master's degree may be given to graduates of Duke University or of other colleges or universities for acceptable graduate courses or research work completed elsewhere. Such credit shall not shorten the minimum period of full-time residence work required at Duke University. It may be used, however, to give opportunity to take six semester hours of a required language course or of required undergraduate training. No credit toward advanced degrees is given for university extension or correspondence courses.

All the work offered for the Master's degree, whether in the regular academic year or in summer sessions, must be completed within a period of six years from the date of beginning.

### THESIS

The title of the thesis required in partial fulfillment of the requirements for the degree of Master of Arts or Master of Education must be approved by the department or departments concerned and filed with the Dean of the Graduate School on or before November 15 of the academic year in which it is expected that the degree will be conferred.

Three (or, at the discretion of the department, four) bound type-written copies of each thesis must be submitted to the Dean of the Graduate School in approved form on or before May 15 of the year in which the degree is conferred. The thesis is passed upon and accepted or rejected by an examining committee of three members of the Faculty. Two of the copies, the original and a carbon copy, are placed in the University Library.

### EXAMINATION

Each candidate for the Master's degree is required to appear before the committee mentioned above for a final examination, which will approximate one and one-half hours in length and will be on the thesis and its related field.

### REQUIREMENTS FOR THE DEGREE OF MASTER OF EDUCATION

The degree of Master of Education is granted to teachers or others engaged in educational service, upon the completion of the prescribed program of study. Candidates for the degree must have had two years of practical experience in teaching when the degree is conferred. This experience may be obtained in the two years immediately prior to entering upon candidacy for the degree, or it may be obtained concurrently with the period of study for the degree.

A preliminary requirement for admission to graduate study for this degree is the completion of a minimum of eighteen semester hours of approved undergraduate work in education, including courses in educational psychology and in the history of education, or educational sociology, or school administration.

The requirements for the degree of Master of Education are twenty-four semester hours of graduate courses and a thesis. Candidates must

take a minimum of twelve semester hours of work and write a thesis in the Department of Education. At least six semester hours must be taken in some department other than the Department of Education. Students who are preparing to teach are advised strongly to take twelve semester hours of graduate work in the subjects they intend to teach. In such cases the thesis may be prepared under the joint supervision of a department in which the student expects to teach and the Department of Education.

The requirements pertaining to residence, thesis, and examination for the degree of Master of Education are identical with those for the degree of Master of Arts.

## **REQUIREMENTS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY**

### **THE DEGREE**

The degree of Doctor of Philosophy is a research degree; it is not based merely upon the completion of a prescribed period of study or upon the obtaining of credit for a given number of courses. The granting of the degree will be based primarily upon evidence of high attainments in a special field of knowledge and upon the production of a thesis embodying the results of original research.

A student who plans to enter upon a program of work leading to the degree of Doctor of Philosophy should consult or enter into correspondence with the Dean of the Graduate School or the Chairman or Director of Graduate Studies of the department concerned. He will then be advised as to the possibility of securing the necessary instruction and supervision of research in the desired field.

### **RESIDENCE**

The normal period of resident graduate study, after the general requirements for admission to the Graduate School have been satisfied, is not less than three academic years. The candidate must spend at least either the last year in actual residence at Duke University, or the first two years. A student whose undergraduate work is insufficient in amount or unsatisfactory in character may expect to spend additional time in preliminary courses essential as a basis for the graduate work he proposes to undertake.

Credit for one year of work done in summer school sessions may be given with the approval of the Graduate School Council and the department in which the student takes his major work. Except in unusual cases, graduate work of fragmentary character taken over a long period of years, or work completed many years before the student becomes a candidate for the degree at Duke University, will not be accepted as satisfying the requirements of residence.

### **APPLICATION FOR CANDIDACY**

A student desiring to become a candidate for the Ph.D. degree is ordinarily required to file with the Dean of the Graduate School, not

later than the beginning of the second year of graduate work, a formal application indicating in what department and under what professor he proposes to carry on research. A committee will then be appointed to supervise the student's work, with the professor in charge of his research as chairman. If and when the committee finds that the preliminary requirements of the major department have been satisfied, the chairman of the committee shall report the fact in writing to the Dean of the Graduate School. The student's program of study will be arranged after consultation with this committee and must secure its approval and that of the Dean of the Graduate School. In the case of students who come to Duke University for only the last year of graduate work, and in special cases approved by the Graduate School Council, the application for recognition as a candidate for the Ph.D. degree may be filed later than provided above, but not later than October 15 of the academic year in which it is desired that the degree be conferred.

#### PROGRAM OF STUDY

The program of study of a candidate for the Ph.D. degree is subject to the approval of the Graduate School Council and of the committee provided for in the preceding section. The student must select a major field and one or two minor related fields. When a department offers instruction in a sufficient variety of subjects and the needs of the individual student seem to require it, the Graduate School Council may permit a major and minor to be taken in the same department.

#### FOREIGN LANGUAGES

A reading knowledge of French and German will be required. The student will be examined on one of the foreign languages at the beginning of his second year of graduate work. No person can come up for his preliminary examination without having satisfied the language requirements for the Doctor's degree. The department in which he takes his major work may indicate preference as to the language in which the student shall first be examined. Foreign language examinations will be conducted by the appropriate language department in conjunction with the department in which the student has his major field of work.\*

#### PRELIMINARY EXAMINATION

Toward the end of the second full year of graduate work (or in special cases early in the third year), a preliminary examination of each candidate will ordinarily be held covering the general field of his studies. This examination will be conducted by the committee in charge of the student's work and will be either oral or written, or both as the committee may determine. A student who passes the examination will be recognized as a candidate for the Ph.D. degree. The examination on his subject or subjects will ordinarily be held at the time of his preliminary examination.

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\* See University Calendar, p. 7.

If a student fails on his first examination, he may make a second attempt after six months upon the recommendation of his committee and the approval of the Dean of the Graduate School. Two failures on this examination make the student ineligible to continue work toward the Ph.D. degree at Duke University.

#### THESIS

The thesis for the Ph.D. degree must be a contribution to knowledge. The subject of the thesis must be filed with the Dean of the Graduate School on or before October 15 of the academic year in which the candidate desires to take the final examination for his degree. The subject must receive the written approval of the head or chairman of the department in which the candidate has his major field of work and also of the professor under whom the thesis is being written.

The thesis must be completed to the satisfaction of the professor under whom it is written, and four typewritten copies in approved form must be deposited with the Dean of the Graduate School on or before May 1 if the student desires to be examined on the thesis in the same academic year. The title-page must be approved by the major department and by the Dean of the Graduate School. Two of the copies, the original and a carbon copy, are placed in the University Library.

The candidate's thesis must be published either in its original form or in a modified form approved by the Dean of the Graduate School and the committee in charge of the candidate's work. In its published form the title-page should include this statement: "A Thesis Submitted in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy in the Graduate School of Arts and Sciences of Duke University." Copies of the published thesis should be deposited in the Graduate School Office as provided by regulations of the Graduate School Council. The degree will not be conferred until publication of the thesis, in approved form, within three years has been guaranteed in a way satisfactory to the Dean of the Graduate School and the professor under whom the thesis was written.

#### FINAL EXAMINATION

The final examination on the thesis and on the related subject matter in the major or the minor fields will be oral. Approximately one year must elapse between the dates of the preliminary examination and the final examination. Two failures on this examination make a student ineligible to continue work toward the Ph.D. degree at Duke University. The second examination may be given only upon the recommendation of the professor in charge of the thesis and the approval of the Dean of the Graduate School.

#### THE GRADING OF GRADUATE STUDENTS

Members of the Faculty are expected to report the grades of graduate students not later than February 15 for the first semester and not later

than June 15 for the second semester on the cards provided for that purpose.

In the grading of graduate students, "S" or satisfactory shall represent work of an acceptable character, "G" or good shall be the next higher grade, and "E" or exceptional shall be the highest grade. "F" or failing indicates that the grade of the student is below passing. In a course in which both graduates and undergraduates are enrolled, the grade "S" shall represent approximately an 80 per cent rating. A mark of "Incomplete" may be given when a student has failed, for an acceptable reason, to complete some portion of the required work in a course in which his standing is generally satisfactory. Unless a report is made within one year that the course has been satisfactorily completed, all credit will be lost.

### GENERAL REGULATIONS

Not more than twenty-five students are permitted in a class giving graduate credit, nor are undergraduate students below the Senior year permitted in such a class. Exceptions to these rules may be made by special permission of the Graduate School Council on recommendation of the department concerned.

In courses exclusively for graduates, students may be given extra credit in semester hours for extra work done, with the approval of the Graduate School Council on recommendation of the department.

### THE LIBRARY

The total number of volumes in the University Library on June 30, 1938, was 529,060 volumes. These are distributed among four main units: the General Library with 398,307 volumes; the Hospital (Medical) Library, 35,159 volumes; the Library of the Law School, 57,786 volumes; and the Woman's College Library, 37,808 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. A departmental library is also maintained for the School of Religion.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,650 files in a more or less complete form. The total number of current periodicals received by subscription, exchange and gift in 1937-38 was 2,874, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the



more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Historica Germaniae*, the *Acta Sanctorum*, the *Corpus Reformatorum*, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately three thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a transportation collection containing many thousand railroad reports and records; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history.

#### PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected. Of European public documents a representative, though not extensive, collection has been secured. Among the more notable items might be mentioned the *British Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Verhandlungen des Reichstages*, and the *Diario* of the Spanish *Cortes*. The public documents of the Latin-American countries form one of the strongest units of the Library.

Under this heading should be mentioned also the recent acquisition of the library of Professor Louis Strisower, sometime president of the Institut de Droit International, which contains approximately five thousand



volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

#### PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has more than twenty-five sets of European academies containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Institut de France* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia gioenia di scienza naturali* (Catania); *Accademia virgiliana de scienze, lettere ed arti di Mantova*; *Accademia de scienze morali e politici* (Naples); *Accademia dei lincei* (Rome); *Accademia nazionale dei lincei*; *Accademia d'Italia* (Rome); *Accademia pontificia dei nuova lincei* (Rome); *Academia de ciencias y artes* (Barcelona); *Academia de ciencias, bellas letras y nobles artes de Córdoba*; *Real academia española*; *Academia de la historia* (Madrid); *Academia das sciencias de Lisboa*; *Akademia nauk* (Leningrad); *Akademia nauk* (Moscow); *Danske videnskabsnernes selskab* (Copenhagen); *Norske videnskapsakademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademija umiejtnosci* (Krakow).

#### NEWSPAPERS

The Library collection of newspapers contains around eleven thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. There are especially long runs of the *New York Herald*, *New York Times*, *New York Tribune*, and the *London Times*. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern states, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of seventy-nine titles represents American public opinion and contains about twenty important foreign titles.

## MANUSCRIPTS

The manuscript collection now contains approximately half a million pieces. Outstanding items include one notable Greek manuscript of the thirteenth century containing the entire New Testament. In the field of English literature there is an interesting body of Rossetti material. For the most part, however, the collection relates to the South Atlantic region. The field of American literature is represented by the papers of Paul Hamilton Hayne, Thomas Holley Chivers, William Gilmore Simms, John Esten Cooke, George Frederick Holmes, and Thomas Nelson Page. Material is most copious in the field of history, where the papers of both well-known and minor figures provide a well-rounded picture of life in the South during the nineteenth century. Aside from politics, information can be found on all phases of social and economic life. Particular attention is given to the period of the Civil War, with the result that the collection is rich in material on civic and social as well as military phases of that conflict. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, John J. Crittenden, John Clopton, William H. Crawford, Jefferson Davis, James Mercer Garnett, Nathaniel Greene, Louis M. Goldsborough, David B. Harris, William W. Holden, T. J. (Stonewall) Jackson, John M. Kell, Robert E. Lee, Francis R. Lassiter, George McDuffie, A. T. Mahan, Willie P. Mangum, Matthew Fontaine Maury, Francis W. Pickens, Richard Singleton, and Alexander H. Stephens. The manuscript collection is increasing at the rate of about fifty thousand items annually.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY  
OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of privileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates daily except Saturdays and Sundays. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 360,000 volumes, besides a large collection of manuscripts relating to Southern history. Through this arrangement more than 889,000 volumes are available to students in the combined libraries.

## SCIENCE LABORATORIES

## BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, seven animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils,

and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge of its development. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. Irving E. Gray is the Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a variety of plants and animals. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to montaine species. In the woods about the University there is a great variety of animal forms.

The Marine Laboratory at Beaufort, N. C., provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Bureau of Fisheries.

#### PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

A tranformer high-voltage outfit generating voltages up to 500 KV makes possible the study of a number of problems in nuclear physics. Research facilities, such as counters, cloud chambers and ionization chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by a trained instrument maker makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

### CHEMISTRY LABORATORIES

Graduate work in chemistry is carried on in a new building which has a floor area of about 57,000 square feet. The equipment of this building is modern in every respect. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, the following specially designed rooms are available for present or future research as indicated: a low temperature room, photographic room, constant temperature room, gas analysis room, combustion room, bomb room, animal room, and rooms equipped for high vacuum, X-ray, and photochemical investigations.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

### MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. Especial attention is given to training in preventive medicine and public health work. Graduate students in the Graduate School of Arts and Sciences taking work in Anatomy, Bacteriology, Immunology, Biochemistry, Physiology, and Pharmacology will find complete laboratory equipment and medical library in the Medical School Building.

### THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of approximately five thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region, composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

Owing to the proximity of the Forest to the laboratories, greenhouses, and library facilities of the University, an excellent opportunity exists for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information, see the *Bulletin of the School of Forestry*.

### ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The twelve members of this Council are chosen from the Faculties of the Schools of Medicine, Law, and Religion, and the Graduate School of Arts and Sciences. In May of each year the Council



on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### SPECIAL LECTURES

During each academic year the University Lecture Committee arranges for a number of special lectures of value to graduate students interested in various fields of knowledge. The Woman's College Lecture Series brings other eminent guests to the campus. In addition to these lecturers, a number of distinguished speakers appear each year on the programs of various schools and departments of the University. In 1938-39 the Centennial Lecture Series added several outstanding educators to the lecture program.

Among the guest lecturers in 1938-39 were Professor Harold J. Brennan, of Westminster College; Dr. Hans Baron, formerly Lecturer in History in the University of Berlin; Sir William David Ross, Provost of Oriel College and Lecturer in Philosophy, Oxford University; Dr. William E. Dodd, former Ambassador to Germany; Mr. James Hepbron, prominent Baltimore criminologist; Mr. John Mason Brown, New York dramatic critic; Dr. Carl Anderson, physicist at the California Institute of Technology; Dr. P. A. Sorokin, chairman of the Department of Sociology, Harvard University; Dr. Charles H. Judd, formerly Director of the School of Education, University of Chicago; Dr. Henry Sloan Coffin, President of Union Theological Seminary (New York); Dr. John Campbell Merriam, retiring President of the Carnegie Institution, Washington; Dr. Roscoe Pound, of the School of Law, Harvard University; Dr. Robert Moses, Commissioner of Parks, New York City; and Dr. Harold G. Moulton, President of the Brookings Institution.

### THE UNIVERSITY PRESS

As far back as 1897 Trinity College began sponsoring the publication of the *Papers of the Trinity College Historical Society*, which were distributed to members of the Society and on exchange with other institutions. This was the first publishing venture of the College.

In 1902, the 9019, an honor scholastic society on the campus, sponsored the launching of *The South Atlantic Quarterly*, which was later taken over by the Press.

In 1925 after the acceptance of the indenture of trust of James B. Duke, Trinity College became Duke University, and the following year the University Press was organized to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. One of the first steps of the new organization was to revive *The Hispanic American Historical Re-*

*view*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption and its mission has been supplemented by the publication of many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World.

In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America to take care of papers too long for inclusion in *Ecology*.

*Character and Personality* was organized in 1932 to offer a medium for the publication of studies in fields related to this phase of psychology. It is an international quarterly which appears simultaneously in the United States and Great Britain. A German edition formerly published in Germany has been forced to suspend publication.

Besides these regular quarterly publications the Press has issued *Duke University Psychological Monographs*, the title of which has recently (1936) been changed to *Contributions to Psychology Theory*, and *Duke University Research Studies in Education* sponsored by the Department of Education of the University.

In 1935 the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and *The Journal of Parapsychology* (1937) for the publication of the results of research in psychoanalysis, mental telepathy, and allied studies. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, official organ of the Association. The Law School issues another quarterly, *Law and Contemporary Problems*, carrying a symposium of some important legal problem in each number.

Previous to the existence of the Press, Duke University, formerly Trinity College, had published several important books under its own imprint. Since the organization of the Press it has continued to offer to the public the products of able scholarly research. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of manuscripts by authors who had no connection with the University have been issued under the imprint of the Press.

In the broadest sense, it is the policy of the Press to give to the public any work which, because of the merit of its contents, its style, and its general value, deserves publication.

### THE BUREAU OF APPOINTMENTS

The University maintains a Bureau of Appointments, whose services are extended to all graduate students without charge. Although placement of students in employment is most frequent in the fields of high-school teaching and industrial or commercial work, graduate students interested in college teaching or other activities should register with



the Bureau and provide letters of recommendation in order to make available in one center information respecting their various qualifications for the employment they seek.

### GRADUATE STUDY IN THE SUMMER SCHOOL

The Duke University Summer School is divided into two consecutive terms of six weeks each, in 1939 beginning June 12 and ending September 2. Graduate students who wish to work toward advanced degrees in the Summer School, particularly in Education, English, and History, will find a wide selection of courses offered by members of the Duke Faculty and by visiting professors. Students in Botany and Zoology have unusual opportunities for research and study at the Marine Laboratory near Beaufort, North Carolina, and in botanical field study at Lake Junaluska in western North Carolina, besides regular course offerings at the University.

Graduate students who present more than fifteen semester hours earned in summer sessions toward the Master's degree must meet a minimum residence requirement of thirty-three weeks. No graduate student may register for more than six semester hours of credit in one summer session of six weeks. All the work presented for the Master's degree must be completed within six years from the date of beginning. Work completed earlier is not accepted toward either the course or residence requirements. Not more than one year of summer work is accepted toward the residence requirements for the Ph.D. degree.

A bulletin containing information regarding the graduate courses to be offered during the summer of 1939 may be obtained by addressing the Director of the Summer School, Duke University, Durham, N. C. Summer school graduate students who desire to be admitted to graduate courses to work toward advanced degrees should make application to the Dean of the Graduate School by May 25 for admission to the first summer session and by July 15 for admission to the second summer session. They should also request the Registrar of the college(s) attended to send to the Dean of the Graduate School an official transcript of their undergraduate record.

## COURSES OF INSTRUCTION

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Unless otherwise stated, all courses listed in this catalogue will be given on the West Campus. For those courses offered on the East Campus (E) will be inserted following the description. In general, courses with odd numbers are offered in the first semester, those with even numbers in the second semester. Some seminars bearing a single number continue throughout the year; in such cases it is indicated whether the semester hours of credit apply to the year or to each semester.

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN; PROFESSORS PEPPLER, ROGERS, AND  
ROSBOROUGH; ASSISTANT PROFESSORS CLARK, GATES, STINE-  
SPRING, AND WAY; DR. TRUESDALE

#### GREEK

FOR SENIORS AND GRADUATES

- 201-202. Greek Tragedy.—6 s.h.  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY
- 203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.  
DR. TRUESDALE
- 205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER
- 207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY
- 209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.  
ASSISTANT PROFESSOR WAY
- 211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER  
(Only one of the six courses listed above is offered each year.)
243. Athenian Topography.—The topography and monuments of ancient Athens. 3 s.h. ASSISTANT PROFESSOR WAY
244. Greek Epigraphy.—Lectures on the history of the alphabet and the development of the local Greek alphabets, followed by extensive reading of inscriptional texts in facsimile. 3 s.h. ASSISTANT PROFESSOR WAY
245. Greek Dialects.—A linguistic study of transliterated inscriptions illustrative of the major Greek dialects. The interrelations of the dialectal forms are examined, with reference, where possible, to their origin in pre-ethnic Greek. 3 s.h. ASSISTANT PROFESSOR WAY
246. Greek Historical Inscriptions.—The more valuable historical inscriptions are read in chronological order and interpreted in their general bearing upon the course of Greek history. 3 s.h. ASSISTANT PROFESSOR WAY
- 247-248. Greek Archaeology.—Advanced course in the general field for Seniors and graduates, comprising architecture, sculpture, vases, and the minor arts. 6 s.h. ASSISTANT PROFESSOR WAY
- (Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in Aristophanes (course 301-302), the Greek Historians (303-304), the Attic Orators (305-306), and the Greek Tragic Poets (307-308). These run through a cycle of four years. In 1939-40 the work will be:

303-304. Seminar in the Greek Historians.—6 s.h. PROFESSOR PEPPLER

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RELATED COURSES IN OTHER DEPARTMENTS

Phil. 217. Philosophy of Aristotle.—3 s.h. DR. McLARTY

N.T. 218. Galatians and I Corinthians.—3 s.h.  
PROFESSOR BRANSCOMB OR ASSISTANT PROFESSOR CLARK

N.T. 315. Hellenistic Religions at the Beginning of the Christian Era.—3 s.h. ASSISTANT PROFESSOR CLARK

N.T. 318. The Text of the New Testament.—3 s.h. ASSISTANT PROFESSOR CLARK

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By a co-operative arrangement graduate students of Duke University may take the following courses at the University of North Carolina with the approval of the Dean of the Graduate School and the Head of the Greek Department at Duke:

Homer.	PROFESSOR EPPS
Greek Tragedy.	PROFESSOR EPPS
Greek Comedy.	PROFESSOR EPPS
The Greek New Testament.	PROFESSOR EPPS
Greek Historians.	PROFESSOR HARLAND
Hellenic Literature and Its Historical Setting.	PROFESSOR HARLAND
Greek Seminar.	PROFESSORS HARLAND, EPPS, AND SANDERS
The Aegean Civilization.	PROFESSOR HARLAND
Topography of Athens, Olympia, and Delphi.	PROFESSOR HARLAND
Archaeology of the Ancient Near East.	PROFESSOR HARLAND
Hellenic Architecture.	PROFESSOR HARLAND
Hellenic Sculpture.	PROFESSOR HARLAND
Greek Epigraphy.	PROFESSOR HARLAND

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*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## LATIN AND ROMAN STUDIES

All candidates for the degree of Master of Arts are required to complete one Latin seminar of six semester hours, and candidates for the doctorate are required to complete not less than two additional seminars of six semester hours each for a major in Latin and Roman Studies. At present Greek, French, Philosophy, and English are the most suitable subjects for the minor for students who desire a Latin major. A satisfactory working knowledge of both German and French is a necessity for graduate students in Classics, and Italian is desirable. Courses marked "U.N.C." are given at the University of North Carolina and are, under a co-operative agreement, open to graduate students and Seniors of Duke University upon approval by the Dean of the Graduate School and the Head of the Department of Latin and Roman Studies.

*N.B. All students desirous of pursuing any of the courses here listed are expected to attend the meeting of Staff and students at 3:00 P.M. in 207 Carr Building on the day before final registration day to get their courses arranged and scheduled.*

## FOR SENIORS AND GRADUATES

**201. Roman Fiction.**

[Not offered in 1939-40]

**202. Latin Christian Writers.**

[Not offered in 1939-40]

**203-204. Roman Epic Poetry.**—A study of this literary genre, and its development in Roman writers; extensive reading of the Roman epics. **6 s.h. (E)**

ASSISTANT PROFESSOR GATES

**205-206. Roman Drama.**

[Not offered in 1939-40]

Roman Dramatic Literature.

PROFESSOR HARRER (U.N.C.)

**207-208. Roman Philosophy.**—Extensive reading in the philosophical writings of Cicero, Lucretius, and Seneca. **6 s.h. (E or W)**

PROFESSOR ROSBOROUGH

**209-210. Vulgar Latin: Introduction to Romance Philology.**—**6 s.h.**

PROFESSOR ROSBOROUGH

**211-212. Roman Oratory.**—A survey-reading course, starting with the *Brutus* of Cicero and acquainting the student with the history and content of the field. **6 s.h.**

PROFESSOR ROGERS

**215. Introduction to Roman Art and Archaeology.**

[Not offered in 1939-40]

**216. Topography and Monuments of Ancient Rome.**—Lectures and reports treating of the site, development and expansion of the City: city plan, public and private buildings, public works, materials and methods of construction. *May be offered the first semester in 1939-40.* **3 s.h.**

PROFESSOR ROSBOROUGH

**251-252. Roman Life.**

[Not offered in 1939-40]

**281-282. Roman Historical Literature.**

[Not offered in 1939-40]

Roman Historical Literature.

PROFESSOR HARRER (U.N.C.)

Prose Writings of the Republic.

PROFESSOR SANDERS (U.N.C.)

Mediaeval Latin.	PROFESSOR JOHNSON (U.N.C.)
The Satires of Juvenal.	PROFESSOR SANDERS (U.N.C.)

FOR GRADUATES

**311-312. Latin Epigraphy.**  
[Not offered in 1939-40]

Latin Epigraphy. PROFESSOR HARRER (U.N.C.)

Cicero: Political Career and Works. PROFESSOR HARRER (U.N.C.)

**375-376. Greek and Latin Linguistics.**  
[Not offered in 1939-40]

Comparative Grammar of Greek and Latin. PROFESSOR LANE (U.N.C.)

Latin Palaeography. PROFESSOR HARRER (U.N.C.)

Seminars: Various authors are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: *Catullus* (301-302), *Roman Historians* (331-332), *Cicero* (391-392), *Martial* (351-352), *Horace* (361-362), *Roman Provincial Administration* (341-342), and *The Reign of Tiberius* (343-344). The seminars planned for 1939-40 are:

**343-344. The Reign of Tiberius.—6 s.h.** PROFESSOR ROGERS

**351-352. Martial's Epigrams.—6 s.h.** PROFESSOR ROSBOROUGH

Latin Seminar. PROFESSORS HARRER, JOHNSON, SANDERS (U.N.C.)

SANSKRIT

FOR SENIORS AND GRADUATES

Elementary Sanskrit PROFESSOR LANE (U.N.C.)

SEMITICS

FOR SENIORS AND GRADUATES

**O.T. 201-202. Elementary Hebrew.**—The principles and structure of the Hebrew language, with translations of selected Old Testament narratives. 6 s.h. ASSISTANT PROFESSOR STINESPRING

**O.T. 304. Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**O.T. 305-306. Elementary Arabic.**—Introduction to the classical language and literature, with some attention to the modern colloquial idiom. No prerequisite, but one year of Hebrew recommended as preparation. 6 s.h. [Not offered in 1939-40] ASSISTANT PROFESSOR STINESPRING

**O.T. 307-308. Advanced Hebrew.**—Samuel or Kings the first semester; Isaiah the second. 6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]

**O.T. 309. History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**N.T. 316. Judaism at the Beginning of the Christian Era.—3 s.h.**  
[Not offered in 1939-40] PROFESSOR BRANSCOMP

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN—203 BIOLOGY BUILDING; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES—315 BIOLOGY BUILDING; ASSOCIATE PROFESSORS HARRAR, KRAMER; ASSISTANT PROFESSORS ADDOMS, OOSTING, PERRY; DR. ANDERSON

## FOR SENIORS AND GRADUATES

**202. Genetics.**—The principles of heredity, their cytological basis, and their bearing on other fields of biology. Laboratory work involves experimental breeding of the fruit fly and interpretation of data from the breeding of plants. Offered in alternate years. Prerequisites: one year of botany, zoology, or equivalent, and college algebra. **4 s.h.** ASSISTANT PROFESSOR PERRY

**203. Plant Cytology.**—A study of the structure and organization of plant cells in relation to growth, reproduction, and especially heredity. Prerequisite: two years of botany. **4 s.h.** DR. ANDERSON  
[Not offered in 1939-40]

**204. Advanced Plant Anatomy.**—The structure of vegetation and reproductive organs of seed plants, including a consideration of seedling anatomy. Special reference is made to plants of economic importance. Offered in alternate years. Prerequisite: Botany 55 or equivalent. **4 s.h.**

ASSISTANT PROFESSOR ADDOMS

**216. Botanical Microtechnique.**—Studies in methods of preparing temporary and permanent microscopical slides; theory of staining; the use of the microscope, especially microscopical measurements, drawing and photomicrography, botanical photography, and lantern slides. Prerequisite: three semesters of botany. **4 s.h.** DR. ANDERSON

**221. Structure and Classification of Fungi.**—Prerequisite: two years of botany. **4 s.h.** PROFESSOR WOLF

**225-226. Special Problems.**—Students with adequate training may do special work in the following fields. Credits to be arranged.

(a) Bacteriology, Mycology, and Plant Pathology. PROFESSOR WOLF

(b) Cytology. DR. ANDERSON

(c) Ecology. ASSISTANT PROFESSOR OOSTING

(d) Genetics. ASSISTANT PROFESSOR PERRY

(e) Morphology and Anatomy of Higher Groups.  
ASSOCIATE PROFESSOR HARRAR, ASSISTANT  
PROFESSORS ADDOMS AND OOSTING

(f) Morphology and Taxonomy of Lower Groups.  
PROFESSOR BLOMQUIST AND DR. ANDERSON

(g) Physiology. ASSOCIATE PROFESSOR KRAMER AND  
ASSISTANT PROFESSOR ADDOMS

(h) Plant Microchemistry. ASSISTANT PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups. PROFESSOR BLOMQUIST

**252. Advanced Plant Physiology.**—The physico-chemical processes and conditions underlying the physiological processes of plants. Prerequisite: Botany 151 or equivalent; organic chemistry recommended. **4 s.h.**

ASSOCIATE PROFESSOR KRAMER



**255. Advanced Taxonomy.**—A study of the historical background of plant taxonomy, modern concepts and systems of classification, nomenclatorial problems and the taxonomy of specialized groups. Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h. PROFESSOR BLOMQUIST  
[Not offered in 1939-40]

**256. Field Ecology.**—An ecological survey of local vegetation, including theory and practice in the use of instruments for precise habitat studies, and analysis of community and successional relationships. Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h. ASSISTANT PROFESSOR OOSTING

## FOR GRADUATES

**305. Plant Geography.**—The distribution and limits of vegetation types with special consideration of the plant communities of North America. Offered in alternate years. Prerequisite: Botany 156 or equivalent. 4 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR OOSTING

**310. Structure and Classification of Bryophytes and Pteridophytes.**—The morphological and systematic characteristics of mosses, liverworts, ferns, and fern allies. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

**311. Structure and Classification of Algae.**—The morphological and ecological characteristics of the common freshwater and marine forms and the principles underlying their classification. Collecting, identification and the making of permanent microscopical preparations. Prerequisite: two years of botany. 4 s.h. PROFESSOR BLOMQUIST

**341. Methods in Plant Physiology.**—The theory and use of apparatus and methods in physiological research. 4 s.h. ASSOCIATE PROFESSOR KRAMER

**342. Plant Microchemistry.**—The identification and estimation of the constituents of plant cells by the use of microchemical tests. Offered in alternate years. 2 s.h. ASSISTANT PROFESSOR ADDOMS

**359-360. Research in Botany.**—Individual investigation in the various fields of botany. Credits to be arranged. STAFF

**397-398. General Botanical Seminar.**—One hour per week throughout the year. Required of all graduates majoring in botany. 1 s.h. each semester. STAFF

## FOREST BOTANY

## FOR SENIORS AND GRADUATES

**224. Forest Pathology.**—Special reference to diseases of forest trees. Offered in alternate years. Prerequisites: Botany 1, 2. 4 s.h. PROFESSOR WOLF

**253. Dendrology.**—The characteristics, identification, and taxonomy of trees and shrubs with special reference to species native to North Carolina and other important forest regions of the United States. Studies of special groups included. Prerequisite: two years of botany. 4 s.h.

ASSOCIATE PROFESSOR HARRAR

## RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in Botany.

**Zoology 341. Historical and Philosophical Zoology.**—2 s.h.

[Not offered in 1939-40]

PROFESSOR HARGITT

**Forestry 257. Design of Forestry Experiments and Analysis of Data.**—5 s.h. PROFESSOR SCHUMACHER

## CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—219 CHEMISTRY BUILDING; PROFESSORS VOSBURGH AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs. BRADSHER, BROWN, HILL, HOBBS, AND LONDON

The graduate work in the Department is planned so as to provide a broad basic training in the fields of inorganic, organic, analytical and physical chemistry. The selection of the research problem for the A.M. or Ph.D. degree determines in which field further specialization takes place.

In the requirements for the Ph.D. degree the most emphasis is placed on the successful completion, under the direction of a member of the Staff, of a research program leading to the solution of an original problem.

## FOR SENIORS AND GRADUATES

**215-216. Advanced Inorganic Chemistry.**—A study of modern theories of valence and molecular structure; also of inorganic compounds, particularly the less common types, the colloidal state of matter, and the phase rule, illustrated by suitable laboratory preparations. Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h.

PROFESSOR VOSBURGH AND DR. HILL

[Not offered in 1939-40]

**231-232. Advanced Quantitative Analysis.**—The theory and technique of the quantitative analysis of complex materials, including quantitative organic analysis and the use of physical measuring instruments. One lecture and six laboratory hours. Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. 6 s.h.

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

**241. Physiological Chemistry.**—A study of the chemistry of human physiology. Clinical aspects of the subject are treated with reference to the need of prospective medical students. Two recitations and six laboratory hours. Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON

**242. Metabolism.**—Open to students who have completed course 241 or its equivalent, and who have a reading knowledge of German. Lectures and collateral reading deal with the probable fate of foodstuffs in the body, the nitrogen balance, energy requirement, nutritive ratios, vital factors, and ductless glands. The laboratory work consists mainly of blood analysis under both normal and pathological conditions. The laboratory or lectures may be taken separately. Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.

PROFESSOR WILSON

**253-254. Advanced Organic Chemistry.**—A continuation of Chemistry 151-152, including discussion of the theories of organic chemistry. The laboratory work will include qualitative organic analysis, together with preparations of the more difficult type, requiring reference to the original literature. Two lectures and six laboratory hours. Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR HAUSER, AND DR. BROWN

**261-262. Physical Chemistry.**—Fundamentals of general theoretical chemistry illustrated by selected laboratory experiments. Two recitations and three laboratory hours. Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

**271. Introduction to Research.**—Lectures on the use of chemical literature, research methods, recording and publication of results, preparation of theses and other topics. One lecture. 1 s.h.

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW

**273-274. Seminar.**—Required of all graduate students in chemistry. One hour a week discussion. 2 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs.  
BRADSHER, BROWN, HILL, AND HOBBS

**275-276. Research.**—The aim of this course is to give instruction in methods used in the investigation of original problems. It is open to Seniors who have had courses 70, 151-152, and who are taking 261-262. Nine hours a week and conferences. 3 or 6 s.h.

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR  
BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRs. BRADSHER, BROWN, HILL, AND HOBBS

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to chemistry and physics. Offered jointly by the Departments of Chemistry and Physics. 3 s.h.  
[Not offered in 1939-40]

PROFESSORS GROSS AND SPONER

**304. Chemical Thermodynamics.**—A continuation of course 303 with emphasis on applications to chemical problems. The topics considered include chemical equilibrium, theory of solutions, reaction kinetics and dipole theory. 3 s.h.

PROFESSORS GROSS AND VOSBURGH

[Not offered in 1939-40]

**351-352. Advanced Synthetic Organic Chemistry.**—Recent advances in certain selected fields such as medicinals, dyes, perfumes, terpenes, and alkaloids, will be discussed. The emphasis will be placed on structure studies and synthetic methods. Lecture or seminar one hour each week. 2 s.h.

ASSOCIATE PROFESSOR BIGELOW

**363-364. Advanced Physical Chemistry.**—A discussion of selected theories of solution, of reaction velocity and catalysis and of molecular forces and structure. Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSISTANT  
PROFESSOR SAYLOR; DRs. HILL AND HOBBS

**365. Seminar in Advanced Theoretical Chemistry.**—Recent developments in the theory of molecular forces, molecular structures and related topics. 2 s.h.

DR. F. LONDON\*

#### RELATED COURSES IN OTHER DEPARTMENTS BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* 6 s.h.

DRs. PERLZWEIG AND TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. 2 s.h.

DR. TAYLOR AND STAFF

**M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.**—Two hours per week throughout the year.

DR. NEURATH

\* Visiting lecturer, fall semester, 1938-39.

**M341. Pathological Chemistry.**—Two hours per week by arrangement. *Winter, spring, and summer quarters.* Prerequisites: Biochemistry M241 and Physiology M261-2. DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

#### BOTANY

342. **Plant Microchemistry.**—2 s.h.

ASSISTANT PROFESSOR ADDOMS

#### PHYSICS

323. **Theory of Atomic Spectra.**—3 s.h.

PROFESSOR SPONER

324. **Theory of Molecular Spectra.**—3 s.h.

PROFESSOR SPONER

### ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON, CHAIRMAN—105 SCHOOL OF RELIGION; PROFESSOR HOOVER, DIRECTOR OF GRADUATE STUDIES—103 ADMINISTRATION BUILDING; PROFESSORS HAMILTON, SPENGLER, AND VON BECKERATH; ASSISTANT PROFESSORS BLACK, DE VYVER, EITEMAN, RATCHFORD, AND SPRINGER

#### FOR SENIORS AND GRADUATES

**203-204. Money, Banking, and Credit.**—After a preliminary study of monetary history and theory, together with an account of the development of credit instruments, there follows a more extended presentation of the theory and practice of banking. The first section of this course (*M.W.F., third period*) is limited to twenty-five graduates and Seniors of superior standing. 6 s.h.

PROFESSOR GLASSON

**217. Business Cycles.**—Description and analysis of the causes and consequences of economic rhythms and movements of various lengths (e.g., seasonal, cyclical, long-period, etc.). Analysis of methods proposed as means of curtailing such movements, or of mitigating their effects. 3 s.h.

PROFESSOR SPENGLER

**218. Population Problems and the Standard of Living.**—A critical survey of the economic laws of returns and of pre- and post-Malthusian population theory; consideration of the relation between natural increase and the laws of economic distribution and of the effects of changes in the rate of natural increase upon various classes of industry and upon employment; examination of the factors which govern population growth and of current population trends; analysis of international economic and political problems which are founded upon population pressure; consideration of the economic and the biological aspects of differential birth rates. 3 s.h.

PROFESSOR SPENGLER

**230. Public Debts in the United States.**—A study of the characteristics of public credit as shown by the experience of national, state, and local governments in the United States. Topics considered include: forms, methods, and purposes of borrowing; effects of the contraction and repayment of debts on governmental fiscal policies, the banking and credit system, and business activity; methods of controlling or limiting debts; refunding and adjustment procedures; defaults and repudiations. 3 s.h.

ASSISTANT PROFESSOR RATCHFORD

**231. The Economic History of Modern Europe.**—A study of the economic development of Europe since the sixteenth century, treating such topics as the guilds, mercantilism, money, banking, crises, the commercial revolution, and the industrial revolution. The rise of modern capitalism and the historical backgrounds of present economic problems will be emphasized. 3 s.h.

PROFESSOR HAMILTON



**232. The Economic History of the United States.**—A study of the agricultural, industrial, commercial, and financial progress of the United States from colonial times to the present day. Special attention will be devoted to mass production, business cycles, great fortunes, and the relationships between government and business. 3 s.h. PROFESSOR HAMILTON

**233. State and Local Finance.**—A study of expenditures, taxation, and financial administration in state and local governments with emphasis on current problems. Special attention will be given to research methods and materials and to the financial relations between state and local governments. Prerequisite: Economics 187 or equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR RATCHFORD

**234. Federal Finance.**—A study of the expenditures, revenues, and financial administration of the government of the United States, with emphasis on current problems. Special attention given to budgetary procedure, corporate and individual income taxes, and the financial relations between federal and state governments. Prerequisite: Economics 187 or equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR RATCHFORD

**237-238. Statistical Methods.**—A study of statistical methods appropriate for dealing with problems in business and the social sciences. In addition to developing more thoroughly the subjects considered in *Business Statistics*, the following methods will be considered: simple, multiple, partial, and curvilinear correlation; curve fitting; probability; frequency distributions; and reliability of estimates. Prerequisite: Business Statistics 138 or consent of the instructor. 6 s.h. ASSISTANT PROFESSOR SPRINGER

**239. Prices.**—A theoretical study of the forces governing price behavior and an historical examination of the fluctuations, disparities, and trends of European and American prices, particularly in periods marked by acute monetary disorder or by rapid change in the stock of the precious metals. Special attention will be devoted to post-war inflation in France and Germany and to the world-wide collapse of prices after 1929. 3 s.h. PROFESSOR HAMILTON

**241-242. Value and Distribution.**—This course is a critical survey of the leading contemporary explanations of price formation and of the determination of interest, rent, wages, and profits. 6 s.h. PROFESSOR SPENGLER

**245-246. Problems of Modern Industrialism.**—This course first surveys technological efficiency and market organization as limiting factors in the determination by industrial management of the rational requirements of plant organization. External political and social forces are then introduced into the complex to show modern industrialism as a phase of mature capitalism. Against the background of modern capitalism, the issue and trends of public policy with respect to economic organization in America and Europe are compared and appraised. 6 s.h. PROFESSOR VON BECKERATH

**253. Labor Problems.**—An examination of present-day labor problems followed by an intensive study of methods used by employers and workers in meeting those problems. 3 s.h. ASSISTANT PROFESSOR DE VYVER

**256. Labor Legislation.**—A study of the relations of the state to labor problems with special reference to remedial legislation, to interference in labor disputes, and to social insurance. Prerequisite: Economics 51-52; Economics 253, or with the consent of the instructor. 3 s.h. ASSISTANT PROFESSOR DE VYVER

**260. Social Insurance.**—A consideration of the economic and social problems involved in workmen's compensation laws, unemployment insurance, old-age pensions, and health insurance for workers. Particular attention will be given to the present federal and state social security legislation. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR DE VYVER

**265. International Trade and Tariff Policies.**—An analysis of the theoretical principles underlying international trade with an historical study of the foreign trade and tariff policies of the United States, France, Germany, and England from the eighteenth century to the present. 3 s.h.

PROFESSOR VON BECKERATH

**266. International Finance.**—A study of the mechanism of international payment with attention to international movements of capital, the peculiarities of an inconvertible paper money regime, and related problems. 3 s.h.

PROFESSOR HAMILTON

**268. Competitive versus Monopolistic Enterprise.**—(1) Competition as an economic order; (2) competition as a political order; (3) monopoly as a disturbance of (1) and of (2). (4) What can government do for the maintenance of the competitive order? (5) What can the judiciary do for the maintenance of the competitive order? (6) What can business do for the maintenance of the competitive order? (7) Limits and difficulties of a liberal solution. (8) Short discussion of different types of compromise solutions, both in the governmental and the economic field. 3 s.h.

PROFESSOR VON BECKERATH

**275-276. Advanced Industrial Accounting and Management.**—This course traces the ways and means of executive control through statistics and industrial accountancy. Emphasis is put upon the economics of overhead costs. A complete practice set of cost accounting is worked by each student during the course. Courses 57-58 and 105 are ordinarily prerequisites for this course. 6 s.h.

ASSISTANT PROFESSOR BLACK

[Not offered in 1939-40]

#### FOR GRADUATES

**311-312. History of Political Economy.**—This course traces the development of economic theory, giving special attention to the various schools of economic thought in England, France, Germany, and the United States. A large amount of collateral reading in the works of typical authors is required. Lectures and class discussions. 6 s.h.

PROFESSOR HAMILTON

**313-314. Seminar in Economic Theory.**—The course consists of directed research in economic theory. The primary purpose is the correction of authoritative eclecticism and its replacement by individually integrated theory. Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

**315. Economic Systems.**—A study of alternative economic systems. In addition to an analysis of communism, anarchism, and the variants of socialism, the course will include a consideration of other proposed modifications of the existing economic order. Credit for this course will be given only if the student takes Economics 316. (Formerly 215.) 3 s.h.

PROFESSOR HOOVER

**316. Economic Functions of the State.**—A consideration of the primary and secondary economic functions of government and of the legislation which provides for the performance of these functions, such as social legislation and the regulation of commerce and industry. Prerequisite: Economics 315 or its equivalent. (Formerly 216.) 3 s.h.

PROFESSOR HOOVER

**318. General Seminar in Economics.**—All graduate students with economics as a major subject are members of this seminar. Reports of progress in research will be made, and there will be lectures and critical discussion by members of the Department. Year course. 2 s.h.

STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

**Forestry 279. Economics of Forestry.**—3 s.h.

ASSOCIATE PROFESSOR THOMSON



History 219-220. The History of the European Proletariat.—6 s.h.

PROFESSOR CARROLL

Political Science 207. American Constitutional Law and Theory.—3 s.h.

PROFESSOR WILSON

Political Science 209. State and Local Governments in the United States.—3 s.h.

PROFESSOR RANKIN

Political Science 271. Socio-Politics and Capitalism.—3 s.h.

PROFESSOR VON BECKERATH

Sociology 219. Urban Sociology.—3 s.h.

ASSISTANT PROFESSOR THOMPSON

Sociology 220. Rural Sociology.—3 s.h.

ASSISTANT PROFESSOR THOMPSON

Sociology 227. Emigration and Immigration.—3 s.h.

[Not offered in 1939-40]

PROFESSOR JENSEN

## EDUCATION

PROFESSOR HOLTON, CHAIRMAN—113 ADMINISTRATION BUILDING; PROFESSOR BROWN-ELL, DIRECTOR OF GRADUATE STUDIES—1C WEST DUKE BUILDING; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY

The Department offers a full major of work in educational psychology toward the degree of Doctor of Philosophy, with approved minors in as many as two of the divisions listed for the Master's degree, and an approved minor in psychology or in some other department offering work closely related to the thesis problem of the candidate. It is planned to offer complete majors in other divisions as rapidly as the growth of the Department justifies.

The Department offers work toward the Master of Arts and Master of Education degrees, and minor work toward the Doctor of Philosophy degree, in the divisions of elementary education, experimental education and educational psychology, history and philosophy of education, public school administration, and secondary education and educational sociology. It is important for students who are degree candidates to choose their course according to some unified plan; they are reminded that mere accumulation of more or less unrelated courses in various divisions with minor work in some department only remotely related to the student's major work does not lead to a graduate degree. Every candidate for a Master's degree should elect at least six, and preferably twelve, semester hours of course work in the special division in which he intends to write his thesis. Students who expect to write theses in the history of education are required to take their minor work in American history. Students writing in school administration are advised to elect minor work in economics and political science. Students in educational psychology should elect their minor work in psychology. No student, except by special approval of the Department and of the Graduate School, is permitted to take minor work in more than one department or to the amount of more than six semester hours.

## ELEMENTARY EDUCATION

### FOR SENIORS AND GRADUATES

207. **Technique of Teaching.**—An advanced course in the teaching process, dealing with the theory underlying sound technique and applied specifically to the work of the elementary school. 3 s.h. (E)

PROFESSOR CARR

[Not offered in 1939-40]

**212. Psychology of the Elementary School Subjects.**—A study of the psychology of learning as applied to teaching the common school subjects. 3 s.h. (E)  
PROFESSOR CARR

**222. The Curriculum and Materials of the Elementary Grades.**—A study of curriculum problems in the elementary schools. 3 s.h.  
[Not offered in 1939-40] PROFESSOR CARR

**232. Elementary School Supervision.**—A survey of supervision as a means of improving instruction and adapting the curriculum to child and community needs. 3 s.h. (E)  
PROFESSOR CARR

#### EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

##### FOR SENIORS AND GRADUATES

**208. Mental Tests and Applications.**—A study of the development of intelligence testing, the concept of general intelligence, various recent applications of mental tests, and training in the giving of individual tests. Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h. (E)  
ASSISTANT PROFESSOR EASLEY

**209. Statistical Methods Applied to Education.**—A study of statistical methods of treating educational and social data designed to enable teachers or administrators to interpret and use the results of scientific investigations in education. 3 s.h. *Second semester.*  
ASSOCIATE PROFESSOR SCATES

**216. Psychological Principles of Secondary Education.**—A study of adolescence and the psychology of learning as applied to teaching the principal high-school subjects. 3 s.h.  
PROFESSOR CHILDS

**217. Advanced Educational Psychology.**—A systematic survey of the field of educational psychology, required of all majors in that field. 3 s.h. (E)  
ASSISTANT PROFESSOR EASLEY

**218. Educational Implications of Genetic Psychology.**—Special section of course 118, intended primarily for graduate students, ordinarily not offered the same year in which 118 is given. Prerequisite: six semester hours of psychology or educational psychology. 3 s.h. (E)  
PROFESSOR BROWNELL

**219. Experimental Education.**—This course is designed to provide training (1) in planning, (2) in prosecuting, and (3) in reporting quantitative investigations in the field of education, more especially in the field of learning and teaching the various school subjects. 3 s.h. (E)  
PROFESSOR BROWNELL

**227. The Psychology of Learning: Problems.**—The major problems related to the learning process will be examined, with the experimental literature bearing on them. The curves of learning and forgetting, the distribution of practice, economical methods of learning, and the transfer of training will be the major topics considered. 3 s.h. *Second semester.*  
ASSISTANT PROFESSOR EASLEY

**228. The Psychology of Learning: Theoretical and Experimental.**—This is a continuation of course 227. In this semester the laws of learning, the most important explanatory principles, and the major systems of psychology of learning will be considered. Class experiments will run throughout the semester. Prerequisite: course 227 or its equivalent. 3 s.h.  
ASSISTANT PROFESSOR EASLEY  
[Not offered in 1939-40]

**237. Investigations in Reading.**—A summary of the results of the more important scientific studies in reading; interpretation of the results in terms of aims, methods, materials of instruction, testing diagnosis, and supervision; emphasis on problems requiring further investigation. 3 s.h. (E)  
PROFESSOR CARR

**247. Investigations in Arithmetic.**—An analytical survey of investigations in arithmetic, with three purposes in view: (1) to examine the techniques employed with respect to their adequacy as means of solving the problems attacked; (2) to test the validity of the results announced and the values of these results for the teaching of arithmetic; (3) to locate further problems in arithmetic in need of scientific research. 3 s.h. PROFESSOR BROWNELL

**258. Educational Measurements.**—A critical study of the principles and techniques involved in measurement in education, with opportunity for individual research. Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. (E)

ASSOCIATE PROFESSOR SCATES

#### FOR GRADUATES

**307-308. Seminar in Educational Psychology.**—Required of graduate students in educational psychology. 2 s.h. (*Each term*, E)

PROFESSOR BROWNELL AND ASSISTANT PROFESSOR EASLEY

**309-310. Research in Educational Psychology.**—This course provides opportunity for more advanced graduate students to engage in individual research projects under close supervision. Credit allowed proportionate to achievement and time devoted to the course. Enrollment by permission of instructor only. 3 to 6 s.h. (E)

PROFESSOR BROWNELL

**338. Research in Reading.**—A course designed for students who have original problems in reading which they desire to investigate. Such studies may be either individual or co-operative. Education 237 is advised as a preliminary course, but is not required. 3 s.h.

PROFESSOR CARR

[Not offered in 1939-40]

**339. Research Course in Educational Tests.**—A study of problems in the construction and interpretation of tests. Prerequisite: the equivalent of course 258. 3 s.h.

ASSOCIATE PROFESSOR SCATES

**348. Research in Arithmetic.**—A course designed for students who have original problems in arithmetic which they desire to investigate. Such studies may be either individual or co-operative. Education 247 is advised as a preliminary course, but is not required. 3 s.h.

PROFESSOR BROWNELL

#### HISTORY AND PHILOSOPHY OF EDUCATION

##### FOR SENIORS AND GRADUATES

**200. Introduction to the Philosophy of Education.**—A consideration of fundamental concepts underlying educational theory. 3 s.h. PROFESSOR HOLTON

[Not offered in 1939-40]

**214. History of Education in the United States.**—A study of the development of the American public school and the interaction of higher education and the public school. 3 s.h.

PROFESSOR HOLTON

**244. Studies in the Historical Development of Public School Administration.**—An advanced course devoted to the development of public school administration in the South, with especial reference to North Carolina as a type. 3 s.h.

PROFESSOR HOLTON

[Not offered in 1939-40]

**254. History of Secondary Education in the United States.**—A study of historical and comparative conceptions of the secondary school, changes in American life affecting the secondary school, present status of the secondary school, current tendencies toward expansion, and the problem of state and Federal aid. *First semester*. 3 s.h.

PROFESSOR PROCTOR

**264. Recent Movements in American Education.**—An intensive study of educational thought and practice since 1900. 3 s.h.  
[Not offered in 1939-40] PROFESSOR HOLTON

**294. Comparative Education: Recent Movements in European Educational Systems.**—A comparative study of the school systems of the principal countries of Europe, with emphasis upon changes since the World War. *First semester.* 3 s.h.  
PROFESSOR CARR

## PUBLIC SCHOOL ADMINISTRATION

### FOR SENIORS AND GRADUATES

**203. Principles of School Administration.**—The fundamental facts and procedures of school administration, an analysis of the problems and policies of the organization and direction of a local school system, and the functions of the various school officials. Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h.  
PROFESSOR PROCTOR

**233. Administrative Pupil-Accounting.**—An advanced study of gradation and classification of pupils, with incidental attention to the keeping of records and the making of reports. The study includes a consideration of individual differences, promotions, acceleration, and retardation of pupils; the various plans for classification and gradation; interpreting the results of tests; and some practice in the computation of statistical measures. 3 s.h.  
[Not offered in 1939-40] PROFESSOR PROCTOR

**234. Secondary School Organization and Administration.**—A study of the outstanding problems of secondary school organization and administration other than the problem of gradation and classification of pupils. 3 s.h.  
PROFESSOR PROCTOR

**253. Legal Phases of School Administration.**—A study of judicial decisions and the development of outstanding features of statute law controlling school administration, with special emphasis upon North Carolina materials. 3 s.h.  
[Not offered in 1939-40] PROFESSOR HOLTON

### FOR GRADUATES

**323. Public School Finance.**—A study of educational costs, sources of revenue for the support of public education, collection of revenue, basis of distribution, and accounting for funds spent. *Second semester.* 3 s.h.  
[Not offered in 1939-40] PROFESSOR PROCTOR

**343. State and County School Administration.**—A study of state and county organization of public schools, emphasizing underlying principles. *Second semester.* 3 s.h.  
[Not offered in 1939-40] PROFESSOR PROCTOR

**363. City School Administration.**—A study of the organization and administration of city school systems, including administrative phases of supervision. *Second semester.* 3 s.h.  
PROFESSOR PROCTOR

## SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

### FOR SENIORS AND GRADUATES

**205. Curriculum Problems in Secondary Education.**—A consideration of the aims and objectives of secondary school subjects, emphasizing practical problems of curriculum-making in the high school. 3 s.h.  
[Not offered in 1939-40] PROFESSOR CHILDS

206. **Sociological Foundations of the Secondary School Subjects.**—A consideration of the aims and objectives of the secondary school. Prerequisite: six semester hours in education, including course 105. 3 s.h.

[Not offered in 1939-40]

PROFESSOR CHILDS

225. **The Teaching of History and the Social Studies.**—Identical with History 211. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.

ASSISTANT PROFESSOR MANCHESTER

246. **The Teaching of Mathematics.**—Identical with Mathematics 204. The course counts as an elective in the Department of Education only when approved by the Department and the instructor. 3 s.h.

PROFESSOR RANKIN

266. **The Teaching of High-School French.**—Identical with French 218. 3 s.h.

PROFESSOR WEBB

#### METHODOLOGY OF RESEARCH

##### FOR GRADUATES

300. **Methods of Educational Research: Seminar.**—Graduate students are instructed in methods of research as applied to selected educational problems. Each student must select for intensive study and practice a subject in which he is interested. 3 s.h.

MEMBERS OF THE DEPARTMENT

#### RELATED COURSES IN OTHER DEPARTMENTS

##### FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Psychology 201. **Social Psychology.**—3 s.h. ASSOCIATE PROFESSOR ADAMS

Psychology 209. **Experimental Methods in Human Psychology.**—4 s.h.

ASSOCIATE PROFESSOR ZENER

Psychology 211. **Physiological Psychology.**—4 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR ZENER

Psychology 216. **Seminar in Comparative Psychology.**—2 or 3 s.h.

ASSOCIATE PROFESSOR ADAMS

Psychology 217. **Gestalt Theory.**—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR ADAMS

Psychology 219. **History of Psychology.**—2 s.h.

Psychology 226. **Contemporary Schools of Psychology.**—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR ZENER

Psychology 305. **Seminar.**—2 or 3 s.h.

Psychology 306. **Seminar in Child Psychology.**—2 or 3 s.h.

ASSOCIATE PROFESSOR ADAMS

Psychology 309. **Theory of Learning.**—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR ADAMS

Psychology 315. **Child Psychology.**—3 s.h.

ASSOCIATE PROFESSOR ADAMS

Sociology 212. **Child Welfare.**—3 s.h.

[Not offered in 1939-40]

PROFESSOR JENSEN

Sociology 213. **Constructive Social Policies.**—2 s.h.

PROFESSOR JENSEN

Sociology 232. **Cultural Anthropology.**—3 s.h.

PROFESSOR HART

Sociology 319. **Principles of Sociology.**—3 s.h.

PROFESSOR ELLWOOD

Sociology 320. **History of Social Philosophy.**—3 s.h.

PROFESSORS ELLWOOD AND JENSEN



## FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

- Economics 230. Public Debts.—3 s.h. ASSISTANT PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—  
3 s.h. PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Religion 365. Seminar in Character Education and the State.—2 s.h.  
PROFESSOR SMITH
- Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN

## FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

- History 209-210. Constitutional History of the United States, 1763-1860.—  
6 s.h. ASSISTANT PROFESSOR STILL  
[Not offered in 1939-40]
- Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
- Philosophy 208. Political Philosophy.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR MORGAN
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
- Religion 362. Ethical Theory of Christian Education.—3 s.h.  
PROFESSOR SMITH
- Religion 363-364. Religious Thought in the Rise of American Culture.—  
6 s.h. PROFESSOR SMITH
- Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD
- Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## ENGLISH

PROFESSOR BROWN, CHAIRMAN—2A WEST DUKE BUILDING; PROFESSORS BAUM,  
GILBERT,\* GOHDES, HUBBELL, IRVING, AND WHITE; ASSISTANT  
PROFESSORS ALLEN AND WARD

## FOR SENIORS AND GRADUATES

- 201-202. Anglo-Saxon.—The first half of the year is given to the reading  
of prose and to a study of the language; the second half, to the reading of  
*Beowulf*. 6 s.h. PROFESSOR BROWN
- 203-204. Chaucer.—The work consists of the reading and study of the  
principal *Canterbury Tales*, the *Troilus*, the minor poems, and some of the  
translations. Students prepare a reading report and a term paper. 6 s.h.  
PROFESSOR BAUM
- 207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM  
[Not offered in 1939-40]
- 209-210. English Literature other than Drama, 1625-1700.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WARD
211. English Literature other than Drama of the Early Seventeenth Cen-  
tury.—3 s.h. ASSISTANT PROFESSOR ALLEN

\* Absent on leave, 1939-40.



**213-214. Folk-Lore and Folk-Songs.**—The course consists of an extensive study during the first semester of the field of folk-lore and during the second semester, of the ballad and of other folk-songs. **6 s.h.** PROFESSOR BROWN  
[Not offered in 1939-40]

**215-216. Elizabethan Drama.**—**6 s.h.**  
PROFESSOR GILBERT AND ASSISTANT PROFESSOR ALLEN

**217. Spenser.**—In this course students make a detailed study of Spenser's work, giving special attention to the major poems. There are frequent written reports and one term paper. **3 s.h.** PROFESSOR GILBERT  
[Not offered in 1939-40]

**218. Milton.**—A detailed study of Milton's prose and poetry with emphasis on the major poems constitutes the work of the course. There are frequent written reports and a term paper. **3 s.h.** PROFESSOR GILBERT  
[Not offered in 1939-40]

**219-220. English Prose and Poetry of the Eighteenth Century.**—The work of the first semester falls within the Age of Pope; that of the second, within the Age of Johnson. There are term papers. **6 s.h.** PROFESSOR IRVING  
[Not offered in 1939-40]

**221. Restoration and Eighteenth-Century Drama.**—**3 s.h.** Offered in the second semester. ASSISTANT PROFESSOR WARD

**225-226. Studies in Victorian Literature.**—**6 s.h.** PROFESSOR BAUM

**227-228. Literary Criticism.**—The work of the course consists of a study of the history of literary criticism from Aristotle to the present. There are oral and written reports and a term paper. **6 s.h.** PROFESSOR GILBERT  
[Not offered in 1939-40]

**229-230. American Literature, 1800-1870.**—A survey of the principal writers of the period. There are term papers and two oral reports each semester. Seniors must have credit for English 137-138 or its equivalent. **6 s.h.**

PROFESSORS HUBBELL AND GOHDES, AND ASSISTANT PROFESSOR ANDERSON

**231-232. Special Studies in American Authors.**—**6 s.h.** PROFESSOR GOHDES

**233-234. American Literature since 1870.**—**6 s.h.** PROFESSOR GOHDES

**239-240. Shakespeare Problems.**—**6 s.h.** PROFESSOR BROWN  
[Not offered in 1939-40]

**269-270. Southern Literature and Culture.**—**6 s.h.** PROFESSOR HUBBELL

FOR GRADUATES

**303-304. Studies in Elizabethan Literature.**—**6 s.h.** PROFESSOR GILBERT  
[Not offered in 1939-40]

**307-308. Southern Literature and Culture in the United States.**—**6 s.h.**  
[Not offered in 1939-40] PROFESSOR HUBBELL

**313-314. Studies in the Romantic Writers of the Early Nineteenth Century.**—**6 s.h.** PROFESSOR WHITE

**315-316. Middle English.**—**6 s.h.** PROFESSOR BAUM

**349-350. Research Courses.**—**6 s.h.**

Students who wish to elect one of these as a seminar course should consult the Chairman of the Department as early as possible.

In 1939-40 (a), (g), and (i) are offered.

(a) **Folk-Lore and the Ballad.** PROFESSOR BROWN

(b) **Shakespeare Problems.** PROFESSOR BROWN

- |   |                               |
|---|-------------------------------|
| (c) English Language and Literature, 1200-1550.     | PROFESSOR BAUM                |
| (d) Victorian Literature.                           | PROFESSOR BAUM                |
| (e) Elizabethan and Seventeenth-Century Literature. | PROFESSOR GILBERT             |
| (f) Literary Criticism.                             | PROFESSOR GILBERT             |
| (g) The Eighteenth Century.                         | PROFESSOR IRVING              |
| (h) The Romantic Movement.                          | PROFESSOR WHITE               |
| (i) American Literature.                            | PROFESSORS HUBBELL AND GOHDES |

#### RELATED COURSES IN OTHER DEPARTMENTS

The attention of students of English is directed to the following courses:

- German 301-302. Gothic—Middle High German.—6 s.h.  
PROFESSOR VOLLMER
- Greek 201-202. Greek Tragedy.—6 s.h.  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY
- History 221-222. The Age of the Renaissance.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON
- History 223-224. Medieval Institutions and Culture.—6 s.h.  
ASSISTANT PROFESSOR QUINN
- Philosophy 201-202. The Philosophy of Art.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
- Philosophy 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
- Psychology 202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

#### DIVISION OF FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—310 BIOLOGY BUILDING; PROFESSORS BEAL, SCHUMACHER, AND WOLF; ASSOCIATE PROFESSORS HARRAR, KRAMER, MAUGHAN, AND THOMSON;  
ASSISTANT PROFESSOR COILE

Major and minor work is offered in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees to students who have received degrees from professional schools of forestry of recognized standing or from approved colleges or universities. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, silvics, forest soils, forest mensuration, forest management, forest entomology, and forest economics, except that a major cannot be taken in forest management. College graduates who have had specialized training in botany or soil science and in allied basic subjects, such as physics, chemistry, geology, and zoology, may pursue graduate study and research only in the specialized fields for which their previous work has qualified them. Students who do not have previous training in forestry will be required to complete a minimum of thirty semester hours of approved work in the Division of Forestry as a preliminary requirement for admission to candidacy for the A.M. and Ph.D. degrees. These men will not be regarded as professionally trained foresters. For information on professional training in forestry, see *Bulletin of the School of Forestry*.

#### FOR SENIORS AND GRADUATES

224. Forest Pathology.—Special reference to diseases of forest trees. Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h.  
PROFESSOR WOLF

**232. Forest Entomology.**—Morphology, general classification, life histories, and control of insects injurious to forest trees, logs, and lumber. 3 s.h.  
 PROFESSOR BEAL

**251. Sampling Methods in Forestry.**—Statistical background for solution of sampling problems with special reference to sample inventory of a forest property. Prerequisite: Forestry S151. 2 s.h.  
 PROFESSOR SCHUMACHER

**252. Forest Mensuration.**—Empirical equations and curve fitting appropriate for construction of timber yield tables, tree volume and taper tables; significance tests and graphical solution of equations. Assignments require operation of calculating machines. Prerequisite: Forestry 251. 2 s.h.  
 PROFESSOR SCHUMACHER

**253. Dendrology.**—Nomenclature, classification, and identification of woody plants with special reference to species indigenous to southeastern United States and other important forest regions of temperate North America. Laboratory and field work. Prerequisite: one year of botany. 4 s.h.  
 ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.**—Role of experimental design in field and laboratory, and statistical analysis of data as aspects of scientific method in forest research. 5 s.h.  
 PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.**—Anatomical, chemical, and nonmechanical physical properties of wood; macroscopic and microscopic identification of more important woods of the United States. Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h.  
 ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.**—Origin, development, and classification of soils with special emphasis on those developed in climates supporting forests; morphological, physical, and chemical properties of soils in relation to growth of trees; field identification, field sampling, laboratory analysis, and interpretation of field and laboratory observations; interrelationships of soil and forest cover. Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h.  
 ASSISTANT PROFESSOR COILE

**264. Silvics.**—Ecological foundations of silviculture with special reference to forest site factors; influence of forests on their environment; growth and development of trees and stands; origin, development, and classification of forest communities; methods of studying forest environments. Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h.  
 PROFESSOR KORSTIAN

**276. Forest Policy.**—Critical study of forestry movement and development of a forestry policy, particularly in United States; brief résumé of forestry in important foreign countries; public land laws of United States; development of Federal and State forestry; forestry laws. 2 s.h.  
 ASSOCIATE PROFESSOR THOMSON

**279. Economics of Forestry.**—Principles of forest economics. Economic and social values of forests; forest resources and wood requirements; economics of wood production and consumption; prices of forest products; forestry and public finance; forestry and land use; forestry credit; forest fire insurance; forestry as a private business enterprise. Prerequisite: at least one course in the principles of economics. 3 s.h.  
 ASSOCIATE PROFESSOR THOMSON

## FOR GRADUATES

**323-324. Advanced Forest Pathology.**—Advanced study and research on life histories and control of diseases of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

**351-352. Advanced Physiology of Forest Trees.**—Advanced study and research on problems in physiology of forest trees to meet individual needs of graduate students. Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER

**354. Forest Soil Fertility.**—Experimental approach to the problems of fertility in forest soil. Influence of stand composition on nitrogen transformation. Methods of studying the exchange complex and the significance of base exchange in forest soil fertility. Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. ASSISTANT PROFESSOR COILE

**356. Advanced Forest Economics.**—Analysis and measurement of economic forces in forestry; advanced study and analysis of forestry problems which may be solved by the application of the principles of economics. Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h. ASSOCIATE PROFESSOR THOMSON

**357-358. Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents.

PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent.

ASSISTANT PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent.

ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents.

ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisite: Forestry 259 and 260, or equivalents.

ASSOCIATE PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.

PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 232 or equivalent.

PROFESSOR BEAL

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN—205 PAGE AUDITORIUM;

PROFESSOR KRUMMEL

## FOR SENIORS AND GRADUATES

**201-202. Goethe.**—A careful study of Goethe's life and works, with special emphasis upon the broader aspects of his ever widening interests and literary activities. 6 s.h. PROFESSOR KRUMMEL

**207-208. German Romanticism.**—The course covers the entire field of German Romanticism from 1800 to 1850. 6 s.h. PROFESSOR VOLLMER

**209-210. Kleist, Grillparzer, and Hebbel.**—A study of the leading representatives of German drama in the first half of the nineteenth century. 6 s.h.  
[Not offered in 1939-40] PROFESSOR KRUMMEL

**211-212. Heinrich Heine and the Young German Movement.**—A study of the German poet and his immediate successors in the movement known as *Jungdeutschland*. 6 s.h.  
[Not offered in 1939-40] PROFESSOR VOLLMER

**213-214. Literature of the Empire, 1871-1914.**—A study of the literature of this period as determined particularly by the philosophical, social, political, and religious factors. 6 s.h.  
[Not offered in 1939-40] PROFESSOR VOLLMER

## FOR GRADUATES

**301-302. Gothic—Middle High German.**—In the first term the essentials of Gothic morphology, phonology and grammar are investigated, and original Gothic literature is read. In the second term the leading medieval German epics are read in the original. 6 s.h.  
PROFESSOR VOLLMER

**303-304. German Seminar.**—A Seminar will be conducted in an eighteenth- or nineteenth-century field for properly qualified students.  
PROFESSORS VOLLMER AND KRUMMEL

## RELATED COURSES IN OTHER DEPARTMENTS

The following courses in other departments are recommended to students, who are majoring in Germanics, as particularly valuable in building a proper background for Germanic studies:

Certain graduate courses in literature or philology offered by the ancient and modern language departments, to be selected after consultation with the Germanic Department.

**History 217-218. Europe since 1870.**—6 s.h. PROFESSOR CARROLL  
[Not offered in 1939-40]

**History 221-222. The Age of the Renaissance.**—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]

**History 223-224. Medieval Institutions and Culture.**—6 s.h. ASSISTANT PROFESSOR QUINN

**History 225-226. The Age of the Reformation.**—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]

**Philosophy 213-214. History of Aesthetics.**—6 s.h. (E) PROFESSOR GILBERT

**Philosophy 223. Contemporary Philosophy.**—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]

**Sociology 320. History of Social Philosophy.**—3 s.h. PROFESSORS ELLWOOD AND JENSEN

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—2B WEST DUKE BUILDING; PROFESSORS CARROLL AND SYDNOR; ASSOCIATE PROFESSORS CLYDE, LANNING, AND NELSON\*; ASSISTANT PROFESSORS MAN-CHESTER, QUINN, STILL, AND WOODY

## AMERICAN HISTORY

## FOR SENIORS AND GRADUATES

**209-210. Constitutional History of the United States, 1763-1860.**—Among the subjects considered are the issues and nature of the Revolution, the prob-

\* Absent on leave, 1939-40.



lem of the Confederation, the nature of the Constitution in the light of its early interpretation, the rise of political parties, sectionalism and its attendant political and economic interests, and the slavery controversy. 6 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR STILL

215-216. **History of the Foreign Relations of the United States.**—This course traces the history of American diplomacy since 1789. 6 s.h.

ASSOCIATE PROFESSOR CLYDE

231. **The Hispanic Colonies of the New World.**—The development of the Iberian states as colonizing powers, the work of the conquerors, the Spanish colonial policy and system, their influences and results, native races, the international contest for supremacy, and the decay of Spanish power in America and the Philippines. 3 s.h.

ASSOCIATE PROFESSOR LANNING

[Not offered in 1939-40]

232. **The Hispanic American Republics of the New World.**—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR LANNING

233. **The Cultural and Institutional History of Colonial Hispanic America.**—3 s.h.

ASSOCIATE PROFESSOR LANNING

234. **Political and Social Problems in the Hispanic American Republics.**—3 s.h.

ASSOCIATE PROFESSOR LANNING

263-264. **American Colonial History and the Revolution, 1606-1783.**—The growth of institutions and economic life in the English colonies; the American Revolution. 6 s.h.

ASSISTANT PROFESSOR WOODY

265-266. **The Westward Movement in the United States.**—A study of the progress of settlement from the Atlantic to the Pacific Coast with especial attention to the transmission of culture, developments in transportation, the transition from agrarian to urban communities, the process of state making, and the social, economic, and political effects of the westward march upon the United States as a whole. 6 s.h.

ASSISTANT PROFESSOR STILL

#### FOR GRADUATES

304. **The Union, Confederacy, and Reconstruction.**—The growth of Southern nationalism, secession, the problems of the Union and Confederacy, and political and economic adjustments during Reconstruction. Year course. 4 s.h.

ASSISTANT PROFESSOR WOODY

315. **Seminar in Southern History.**—Year course. 2 s.h.

PROFESSOR SYDNOR

321. **Seminar in the History of Spain and the Spanish-American Colonies.**—Year course. 2 s.h.

ASSOCIATE PROFESSOR LANNING

329. **Historiography of the South.**—Attention is given to the more important printed and manuscript sources and to the writings of the older historians. Bibliographical and research problems are introduced. Year course. 4 s.h.

ASSISTANT PROFESSOR WOODY

[Not offered in 1939-40]

336. **The South in Federal Politics, 1789-1860.**—The interests and political actions of the South on such questions as public lands, internal improvements, foreign policy, the tariff, and slavery; the political techniques and theories of the South. Year course. 4 s.h.

PROFESSOR SYDNOR



**337. Social and Economic Life of the Old South.**—Conditions and trends in the South in respect to population movements, transportation, agriculture, slavery, urban life, commerce, manufacturing, religion, education, and other intellectual activities. Year course. 4 s.h. PROFESSOR SYDNOR  
[Not offered in 1939-40]

## EUROPE AND THE FAR EAST

### FOR SENIORS AND GRADUATES

**217-218. Europe since 1870.**—International relations since the Franco-German War is the chief subject of study in this course; special emphasis is placed upon the underlying economic and political influences. 6 s.h.  
[Not offered in 1939-40] PROFESSOR CARROLI

**219-220. The History of the European Proletariat.**—This course is concerned chiefly with the origins, expansions, and organization of the industrial working classes of Europe. The following problems are emphasized: the decline of serfdom, the growth of an urban working class and social revolutions in England, France, and Germany prior to the eighteenth century, the results of the Industrial Revolution, and labor movements and theories during the nineteenth and twentieth centuries. 6 s.h. PROFESSOR CARROLL

**221-222. The Age of the Renaissance.**—The decline of characteristic features of medieval civilization and the rise of modern European institutions with particular attention to intellectual movements from Dante to Erasmus. 6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]

**223-224. Medieval Institutions and Culture.**—A consideration of the classical heritage, the Germanic infusion, development of ecclesiastical, feudal, monarchical, and communal institutions, relations of Church and State, the rise of universities, vernacular literature, philosophy, and art, in the period 300-1300 A.D. 6 s.h. ASSISTANT PROFESSOR QUINN

**225-226. The Age of the Reformation.**—A survey of European civilization from 1500 through the Peace of Westphalia. 6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

**241. History of Modern Japan.**—A survey of institutional development, political, economic, and social, since 1850. 3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]

**242. History of Modern China.**—A survey of institutional development, political, economic, and social, since 1840. 3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]

### FOR GRADUATES

**305. Seminar in the History of England and the British Empire.**—The work consists of practical training in the methods of historical research based on sources for modern British history. Year course. 2 s.h. PROFESSOR LAPRADE

**317. Seminar in Recent European History.**—Year course. 2 s.h. PROFESSOR CARROLI

**325. British Nationality and Public Opinion.**—A study of the various political and social groups that have contended for power in England since the sixteenth century and the methods they used. Year course. 4 s.h.  
[Not offered in 1939-40] PROFESSOR LAPRADE

327. **Modern Phases of the English Constitution.**—A brief review of the medieval constitution, followed by a more intensive study of certain aspects of its development in the sixteenth, seventeenth, and eighteenth centuries. Year course. 4 s.h. PROFESSOR LAPRADE

343. **Seminar in the History of American Foreign Relations and the Far East.**—Year course. 2 s.h. ASSOCIATE PROFESSOR CLYDE

### THE TEACHING OF HISTORY

FOR SENIORS AND GRADUATES

211. **The Teaching of History and the Social Studies.**—The work consists of a discussion of the question of aims and values in teaching history and civics, textbooks, programs of study, methods of instruction, the use of maps and pictures, the making of lesson plans for use in the high school, and other problems of high-school teaching. First semester. 3 s.h.

ASSISTANT PROFESSOR MANCHESTER

### BIBLIOGRAPHY

FOR GRADUATES

326. **Historiography and Bibliography.**—A survey of the development of historical writing, an examination of the greater collections of historical sources, and a consideration of the interrelationships of history and other branches of social knowledge. Hours to be arranged. 2 s.h.

[Not offered in 1939-40]

MEMBERS OF THE DEPARTMENT

### RELATED COURSES IN OTHER DEPARTMENTS

Church History 233. **Church History to the Reformation.**—3 s.h.

ASSISTANT PROFESSOR PETRY

Church History 334. **The Church in America.**—6 s.h. PROFESSOR GARBER

Economics 231. **Economic History of Modern Europe.**—3 s.h.

PROFESSOR HAMILTON

Economics 232. **Economic History of the United States.**—3 s.h.

PROFESSOR HAMILTON

Economics 311-312. **History of Political Economy.**—6 s.h.

PROFESSOR HAMILTON

Economics 315. **Economic Systems.**—3 s.h.

PROFESSOR HOOVER

Economics 316. **Economic Functions of the State.**—3 s.h.

PROFESSOR HOOVER

Old Testament 309. **History of the Ancient Near East.**—3 s.h.

ASSISTANT PROFESSOR STINESPRING

Political Science 223. **Political Thought to the Seventeenth Century.**—3 s.h. PROFESSOR WILSON

Political Science 224. **Modern Political Theory.**—3 s.h.

PROFESSOR WILSON

Religious Education 363-364. **Religious Thought in the Rise of American Culture.**—6 s.h. PROFESSOR SMITH

Sociology 320. **History of Social Philosophy.**—3 s.h.

PROFESSORS ELLWOOD AND JENSEN

MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN—04 SCHOOL OF RELIGION; PROFESSOR THOMAS, DIRECTOR OF GRADUATE STUDIES—02 SCHOOL OF RELIGION; PROFESSORS ELLIOTT AND RANKIN; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS HICKSON, MILES, AND ROBERTS; DRs. BOAS AND DRESSEL\*

The Department offers basic courses in each of the main divisions of mathematics: algebra, analysis, geometry, and applied mathematics.

The Master's degree with major in mathematics is awarded primarily on the basis of scholarship. The candidate's preliminary mathematical work must be approved by the Department through the Director of Graduate Studies. It must include differential and integral calculus and the equivalent of two of the courses numbered above 100 in the undergraduate announcement. Eighteen of the twenty-four semester hours of course work required by the general regulations for the degree must be taken in the Department.

The Doctor's degree with major in mathematics is awarded as a recognition of potential ability and training in research. The original dissertation is the most important of the formal requirements for it. A candidate should have in mind this requirement from the outset and plan his courses accordingly.

Because of the important mathematical literature in French and German, all students taking graduate work in mathematics should have a practical reading knowledge of these languages near the beginning of their graduate study.

FOR SENIORS AND GRADUATES

**201. History of Mathematics.**—Evolution of the number system, arithmetic, geometry, algebra, trigonometry, analytic geometry, calculus, and modern geometry. Brief sketches of mathematicians. *Offered in alternate years.* 3 s.h.  
PROFESSOR RANKIN

**204. Teaching of Mathematics.**—Fundamental processes, methods of study, mathematical literature, content of courses, applications, correlation of different branches. *Offered in alternate years.* Must be preceded or accompanied by Mathematics 52 or 60. 3 s.h.  
PROFESSOR RANKIN

**207. Fundamental Concepts of Algebra and Geometry.**—The concepts: number, variable, function, limit, group, definition, axiom, space, proof. Prerequisite: integral calculus. 3 s.h. (E)  
[Not offered in 1939-40]

**225. Theory of Equations.**—Permutations, determinants, matrices, linear systems, polynomials and their roots, constructibility, resultants, discriminants, simultaneous equations. Prerequisite: differential calculus. 3 s.h.  
PROFESSOR THOMAS

**227-228. Theory of Numbers.**—Congruences, arithmetic functions, compound moduli, quadratic reciprocity, Gauss sums, quadratic forms, sums of squares. Prerequisite: integral calculus. 6 s.h. ASSOCIATE PROFESSOR CARLITZ

**229-230. Algebraic Numbers.**—Ideals, unique factorization, divisors of the discriminant, determination of the class number. Prerequisite: Mathematics 225. 6 s.h.  
ASSOCIATE PROFESSOR CARLITZ  
[Not offered in 1939-40]

**235-236. Modern Algebra.**—Groups, fields, rings, matrices, quadratic and bilinear forms, general Galois theory, hypercomplex systems. Prerequisite: differential calculus. 6 s.h.  
[Not offered in 1939-40]

\* Absent on leave, 1939-40.

**250. Modern Geometry.**—Properties of the triangle, transversals, harmonic properties of figures, poles, polars, inversion. Prerequisite: differential calculus. 3 s.h. (E)

[Not offered in 1939-40]

**252. Non-Euclidean Geometry.**—Geometry of Bolyai and Lobachevsky. Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR ROBERTS

[Not offered in 1939-40]

**255-256. Projective Geometry.**—Postulational, synthetic treatment centering around Desargues' theorem and the principle of projectivity. Conics, coordinates, order, continuity, metric properties. Prerequisite: differential calculus. 6 s.h. ASSISTANT PROFESSOR ROBERTS

**275. Probability.**—Combinatory analysis, mean values, Bernoulli's theorem, probability integral. Applications to statistics. Prerequisite: integral calculus. 3 s.h. DR. BOAS

**281. Elementary Potential Theory.**—Newtonian potentials, vector fields, Dirichlet and Neumann problems. Prerequisite: integral calculus. 3 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR MILES

**282. Differential Equations of Mathematical Physics.**—Hamilton-Jacobi equation, heat equation, wave equation, telegraphic equation, Schrodinger's equation. Prerequisite: integral calculus. 3 s.h. DR. DRESSER

[Not offered in 1939-40]

**283. Fourier Series and Spherical Harmonics.**—Fourier series and integral, Legendre polynomials, spherical harmonics, Bessel functions. Applications to mathematical physics. Prerequisite: integral calculus. 3 s.h.

[Not offered in 1939-40]

**284. Vector Analysis.**—Vectors in three-dimensional Euclidean space with applications to physics; introduction to tensor analysis. Prerequisite: integral calculus. 3 s.h. PROFESSOR THOMAS

**287. Mathematical Logic.**—Boole-Schroeder algebra of logic, system of Principia Mathematica, strict and material implication. 3 s.h.

[Not offered in 1939-40]

**288. Foundations of Mathematics.**—Postulates for groups, fields, rings, Boolean algebras. 3 s.h.

[Not offered in 1939-40]

**291-292. Theory of Functions.**—Fundamental concepts in the theory of functions of real and complex variables. Limits, continuous functions, Riemann integrals, implicit functions, power series, double series, linear transformations, elementary functions, Cauchy's theorem and its applications, entire functions, residues, Riemann surfaces, conformal mapping. Prerequisite: Mathematics 140. 6 s.h. ASSOCIATE PROFESSOR GERGEN

#### FOR GRADUATES

**325-326. Real Variable.**—The number system; theory of sets; transfinite numbers; Baire classes; Lebesgue, Stieltjes, Denjoy integrals and their applications; linear operations. Prerequisite: Mathematics 291-292. 6 s.h.

[Not offered in 1939-40]

**331-332. Complex Variable.**—Analytic continuation; conformal mapping and its applications; univalent functions; meromorphic functions; analytic functions of several complex variables. Prerequisite: Mathematics 291-292. 6 s.h. ASSOCIATE PROFESSOR GERGEN AND DR. BOAS

**333-334. Analytic Theory of Numbers.**—Distribution of primes; primes in an arithmetic progression; Waring and Goldbach problems. Prerequisite: Mathematics 291-292. 6 s.h.

[Not offered in 1939-40]

**335-336. Infinite Series.**—Criteria for convergence, algebraic and functional combination of series, infinite products, divergent series. Prerequisite: Mathematics 139-140. 6 s.h.

[Not offered in 1939-40]

**337-338. Existence Theorems.**—Systems of partial differential equations: Pfaffian systems; theorems of Cauchy, Riquier, and Cartan; singular integral varieties. Prerequisite: Mathematics 291-292. 6 s.h. PROFESSOR THOMAS

**341-342. Integral Equations.**—Volterra and Fredholm integral equations; application to boundary problems of differential equations. Prerequisites: Mathematics 131 and 139-140. 6 s.h. PROFESSOR ELLIOTT

[Not offered in 1939-40]

**343-344. Ordinary Differential Equations.**—Solution by separation of variables, exact differentials, integrating factors, solution in series, Cauchy's existence theorem, linear differential systems, singular points, partial differential equations equivalent to ordinary systems. Prerequisite: Mathematics 291-292. 6 s.h.

[Not offered in 1939-40]

**345-346. Calculus of Variations.**—Methods of Euler, Jacobi, Weierstrass, and Bolza. Prerequisites: Mathematics 131 and 291-292. 6 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR HICKSON

**347-348. Elliptic Functions.**—Weierstrass, Jacobi, and theta functions; applications to the theory of numbers. Prerequisite: Mathematics 291-292. 6 s.h.

[Not offered in 1939-40]

**351-352. Differential Geometry.**—Curves and surfaces in three-dimensional Euclidean space; applicability, differential parameters; Riemannian geometry of  $n$ -space. Prerequisite: Mathematics 291-292. 6 s.h.

[Not offered in 1939-40]

**353-354. Trigonometric Series.**—Detailed, analytic study of trigonometric, particularly Fourier, series; related topics in Lebesgue integrals and complex variable. Prerequisite: Mathematics 325-326. 6 s.h.

[Not offered in 1939-40]

**371-372. Topology.**—Topological spaces, separation axioms, bases, metrization theorems, Euclidean spaces. Algebraic theory of complexes, homology groups and their invariance, theory of manifolds and their duality relations. Prerequisite: Mathematics 291-292. 6 s.h. ASSISTANT PROFESSOR ROBERTS

[Not offered in 1939-40]

**382. Potential Theory.**—Properties of harmonic functions. Existence theorems for boundary value problems. Potentials of general mass distribution. Prerequisites: Mathematics 281 and 325-326. 6 s.h.

[Not offered in 1939-40]



## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 SCHOOL OF RELIGION; PROFESSORS GILBERT AND SMITH; ASSOCIATE PROFESSOR MORGAN; ASSISTANT PROFESSOR LEONARD; AND DR. MCLARTY

## FOR SENIORS AND GRADUATES

201-202. **The Philosophy of Art.**—Study of the various phases of the aesthetic experience and forms of beauty with analysis of examples. Particular attention will be given to recent writers on aesthetics. 6 s.h. (E)  
[Not offered in 1939-40] PROFESSOR GILBERT

203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. 3 s.h. ASSOCIATE PROFESSOR MORGAN

204. **Christian Ethics.**—A historical and systematic study of Christian conceptions of the moral life and its problems. 3 s.h. PROFESSOR SMITH

205. **The Philosophy of History.**—An inquiry into the logic and methodology of the knowledge of history, and into the metaphysical implications of history. 3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]

206. **Modern Political Theory.**—3 s.h. Political Science 224.  
PROFESSOR WILSON

207. **Political Thought to the Seventeenth Century.**—3 s.h. Political Science 223. PROFESSOR WILSON

208. **Political Philosophy.**—A critical investigation of the bases of political authority and of the ideals of political organization, with reference to prevalent political systems. 3 s.h. ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1939-40]

209-210. **The Philosophy of Religion.**—A critical consideration of the data of empirical religion and the constructive development of modern philosophy of religion. 6 s.h. PROFESSOR WIDGERY

212. **Psychology of Belief.**—2 s.h. Psychology 228.  
PROFESSOR LUNDHOLM

213-214. **History of Aesthetics.**—The tracing of the historical solutions of traditional problems, such as the nature of imitation, symbolism, the ugly, the sublime, and the comic, the relation of art to nature, to morals, and to economics, the relation of the particular arts to each other, the standard of taste. 6 s.h. (E) PROFESSOR GILBERT

215-216. **Plato.**—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h. Greek 209-210. ASSISTANT PROFESSOR WAY

217. **The Philosophy of Aristotle.**—Prerequisite: 105. 3 s.h.  
DR. MCLARTY

219-220. **The Age of the Renaissance.**—6 s.h. History 221-222.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

223. **Contemporary Philosophy.**—A study of the leading philosophical movements in Europe and America in the last fifty years. 3 s.h.  
[Not offered in 1939-40] PROFESSOR WIDGERY

226. **The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN

227. **Foundations of Mathematics.**—3 s.h. Mathematics 288.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ

228. **Mathematical Logic.**—3 s.h. Mathematics 287.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ



229-230. **Contemporary Physics.**—6 s.h. Physics 213-214.

ASSISTANT PROFESSOR CONSTANT

231-232. **Philosophy of Science.**—A historical and critical survey of the relations of natural science to general philosophy.

ASSISTANT PROFESSOR LEONARD

234. **Introduction to the Philosophy of Education.**—3 s.h. Education 200.  
[Not offered in 1939-40]

PROFESSOR HOLTON

236. **Oriental Philosophy I. Chinese Philosophy.**—3 s.h.

ACTING PROFESSOR DUBS

238. **Oriental Philosophy II. Indian Philosophy.**—3 s.h.

[Not offered in 1939-40]

PROFESSOR WIDGERY

241. **Logic.**—The characteristic structure of a logical system. Forms of propositions and arguments. Logical relations of propositions. Levels of analysis. 3 s.h.

ASSISTANT PROFESSOR LEONARD

242. **Scientific Methodology.**—A survey of the methods used in the different branches of the natural and social sciences in seeking and testing knowledge. 3 s.h.

ASSISTANT PROFESSOR LEONARD

244. **European Thought in the Latter Half of the Nineteenth Century, with Special Reference to Nietzsche.**—Studies in the major trends of intellectual life of the period, focused around the work of a representative thinker. Prerequisite: six hours; admission otherwise by permission of the instructor. A reading knowledge of German is desirable. 3 s.h.

ASSOCIATE PROFESSOR MORGAN

245-246. **Philosophical Foundations of Religious Belief.**—6 s.h.

[Not offered in 1939-40]

ACTING PROFESSOR DUBS

248. **Philosophy of Values.**—2 s.h.

ACTING PROFESSOR DUBS

249. **Platonism and Christianity.**—An analysis of Plato's religious philosophy: its variants in Neo-Platonic and Christian thought. 3 s.h.

DR. OUTLER

250. **Philosophical Theology in the Nineteenth Century.**—A survey of the reciprocal relations of philosophy and metaphysics. 3 s.h.

DR. OUTLER

#### FOR GRADUATES

301-302. **Seminar in Philosophy.**—For the discussion of special problems, chiefly metaphysical. Two hours a week throughout the year. Time to be arranged. 4 s.h.

PROFESSOR WIDGERY

305. **Seminar: Spinoza.**—Detailed study of Spinoza's works showing the development of his own thought and his relation to his contemporaries. 3 s.h.

PROFESSOR GILBERT

307. **Seminar: Kant.**

ASSOCIATE PROFESSOR MORGAN

308. **Seminar: Hegel.**—A study of a selection of the texts together with recent interpretations. 3 s.h.

[Not offered in 1939-40]

PROFESSOR GILBERT

310. **Seminar: Logical Positivism and Its Relation to Contemporary Movements in Philosophy and Science.**—2 s.h.

ASSISTANT PROFESSOR LEONARD

311. **Historical and Philosophical Biology.**—2 s.h. Zoology 341.

PROFESSOR HARGITT

313-314. **Seminar: Theories of the Self.**—4 s.h. Religion 377-378.

PROFESSOR HICKMAN

315. **Seminar: Leibnitz.**—2 s.h.

ACTING PROFESSOR DUBS

316. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN
317. Theology in Ancient and Medieval Christianity.—3 s.h. Religion 323.  
DR. OUTLER
318. Theology in Modern Christianity.—3 s.h. Religion 324. DR. OUTLER
- 319-320. Religious Thought in the Rise of American Culture.—Prerequisite: Religious Education 261 or its equivalent. 6 s.h. Religion 363-364.  
PROFESSOR SMITH
322. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. Religion 366. 3 s.h. PROFESSOR SMITH
323. Seminar: Bushnell, Channing, Emerson.—2 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]
325. Seminar: Locke, Berkeley, Hume.—2 s.h.  
ASSISTANT PROFESSOR LEONARD

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—101 PHYSICS BUILDING; PROFESSORS EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; DRs. BONNER AND HEBB

The Department of Physics makes provision for both beginning and advanced graduate students. The courses are designed to give a broad basic foundation in classical and quantum physics.

All graduate students will first be expected to acquire a thorough knowledge of the various branches of classical physics as well as some familiarity with modern physics and sufficient laboratory training. They will be required to take such course work in the 200 group of studies as may be necessary to complete this foundation.

To complete their course requirements in physics, graduate students will take such advanced courses as will best help them and fit them for the type of work in which they plan to specialize and undertake research. The character of the work in other related departments will also depend upon the field of subsequent specialization and research.

Since a reading knowledge of French and German is highly desirable, students are urged to satisfy the language requirements in both as early as possible.

The research work of the Department is largely confined to the experimental and theoretical fields of nuclear physics and molecular structure. Experimental work is also being done in magnetism.

### FOR SENIORS AND GRADUATES

203-204. **Analytical Mechanics.**—Geometry of motion; kinematics of a particle and of a rigid body; statics; relative motion; general principles of mechanics. 6 s.h. DR. HEBB

205-206. **Physical Optics.**—This course deals with interference diffraction, polarization, absorption, dispersion; in general it will cover those topics treated in a text such as Wood's *Physical Optics*. Two lectures and one three-hour laboratory period per week. 6 s.h. PROFESSOR HATLEY

211. **History of Physics.**—A rapid review of the fundamental laws of physics developed from the historical point of view. 2 s.h. PROFESSOR EDWARDS

213-214. **Contemporary Physics.**—A course which covers in a descriptive manner the fundamental concepts and experimental basis of modern theories of the structure of matter. 6 s.h. ASSISTANT PROFESSOR CONSTANT

**215-216. Atomic Physics Laboratory.**—Some of the more important experiments which form the basis of modern atomic theory. Special emphasis is placed on experimental technique, valuable in original physical investigations. 2 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**217-218. Advanced General Physics Laboratory.**—Exact measurements involving the fields of mechanics, electrical measurements, heat and pyrometry. 2 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

**219. Vacuum Tubes and Their Application.**—Theory and application of vacuum tube circuits with special emphasis on their use in scientific research. Two hours of lecture and one three-hour laboratory per week. Prerequisites: 8 s.h. of physics, differential and integral calculus. 3 s.h. ASSISTANT PROFESSOR MOUZON

**221-222. Introduction to Theoretical Physics.**—Lectures and problems on the fundamental principles and mathematical theory of the general field of physics, constituting a thorough foundation for subsequent specialization and more intensive study. 6 s.h. ASSISTANT PROFESSOR CONSTANT

#### FOR GRADUATES

**303. Thermodynamics.**—Fundamental laws of thermodynamics and their applications to physics and chemistry. Offered jointly by the Departments of Physics and Chemistry. 3 s.h. PROFESSORS GROSS AND SPONER  
[Not offered in 1939-40]

**304. Kinetic Theory of Matter.**—Gas laws; Maxwell's distribution law; mean free path; viscosity; heat conductivity; diffusion; phenomena in gases at low pressure; specific heat; entropy; probability and reaction kinetics. 3 s.h. PROFESSOR SPONER  
[Not offered in 1939-40]

**307. Theory of Electricity and Magnetism.**—An advanced theoretical course based on Jean's *Electricity and Magnetism*, covering the mathematical theory of electrostatics, magnetostatics, current theory and electro-magnetism, and illustrated by numerous problems. Particular attention is given to electrostatic problems and methods of solution of Laplace's equation. Prerequisite: Physics 221-222. 3 s.h. ASSISTANT PROFESSOR CONSTANT

**311. Conduction of Electricity through Gases.**—Electron theory of conduction through gases; spark and glow discharges; electric arcs; excitation of spectra; energy levels; radioactive radiations. 3 s.h. PROFESSOR EDWARDS

**315-316. Principles of Quantum Theory.**—The origin and fundamental concepts of the quantum theories. The mechanics and principles of the Bohr-Sommerfeld theory are followed by those of the more recent theories of wave and matrix mechanics, as developed by De Broglie, Schrodinger, Heisenberg, Born, Jordan, and Dirac. 6 s.h. PROFESSOR NORDHEIM

**317. Advanced Dynamics.**—A course dealing with the more advanced phases of dynamics and considering such topics as equations of Lagrange and Hamilton, generalized coördinates, oscillatory and cyclic motion, criteria of equilibrium, and the Newtonian potential theory. 3 s.h. DR. HEBB

**319. Electrodynamics.**—Maxwell's equation. Electromagnetic oscillations and waves. Electromagnetic theory of light. 3 s.h. PROFESSOR NORDHEIM  
[Not offered in 1939-40]

**320. Theory of Electrons.**—Crystal optics, theory of dispersion, conductivity and magnetism. Optics of moving bodies. Prerequisite: Physics 319. 3 s.h. PROFESSOR NORDHEIM  
[Not offered in 1939-40]

**323. Theory of Atomic Spectra.**—Excitation of spectra, computation of wave lengths from photographs of spectra, study of the structure of atomic spectra with applications. 3 s.h. PROFESSOR SPONER

324. **Theory of Molecular Spectra.**—A study of the structure of molecular spectra with applications. 3 s.h. PROFESSOR SPONER

340. **Structure of Matter.**—Selected topics dealing with the constitution of matter such as crystal structure and X-rays, the solid state and nuclear physics. 3 s.h. PROFESSORS SPONER AND NORDHEIM

341-342. **Advanced Topics in Physics.**—Treatment of more special fields in physics. 2-6 s.h. PROFESSORS SPONER AND NORDHEIM

The fields taken up in the courses 340-342 will vary from year to year.

343-344. **Radioactivity and Nuclear Structure.**—Discovery of radioactivity, properties of Alpha, Beta and Gamma rays, successive transformations, artificial transmutations and nuclear structure. 6 s.h. PROFESSOR NIELSEN

345-346. **Colloquium.**—Discussion of recent advances in physics. No credit. STAFF

351-352. **Seminar.**—A series of weekly discussions on topics related to the research projects under investigation in the department. 2 s.h. STAFF

353-354. **Thesis Seminar.**—Students who are properly qualified may carry on research work under the direction of members of the Staff. 6 s.h. STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

##### CHEMISTRY

261-262. **Physical Chemistry.**—6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

363-364. **Advanced Physical Chemistry.**—6 s.h.

PROFESSORS GROSS AND VOSBURGH, ASSISTANT  
PROFESSOR SAYLOR, DRs. HILL AND HOBBS

##### ELECTRICAL ENGINEERING

261. **Communication Engineering, Audio Frequency.**—3 s.h.

PROFESSOR SEELEY

262. **Communication Engineering, Radio Frequency.**—Prerequisite: course

261. 4 s.h.

PROFESSOR SEELEY

##### MATHEMATICS

281. **Elementary Potential Theory.**—3 s.h. ASSISTANT PROFESSOR MILES  
[Not offered in 1939-40]

282. **Differential Equations of Mathematical Physics.**—3 s.h.

[Not offered in 1939-40]

DR. DRESSEL

283. **Fourier's Series and Spherical Harmonics.**—3 s.h.

[Not offered in 1939-40]

284. **Vector Analysis.**—3 s.h.

PROFESSOR THOMAS

#### POLITICAL SCIENCE

PROFESSOR WILSON,\* CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—311  
LIBRARY; PROFESSORS RANKIN AND VON BECKERATH; ASSOCIATE  
PROFESSORS COLE AND SHIPMAN; DR. LINEBARGER

##### FOR SENIORS AND GRADUATES

207. **American Constitutional Law and Theory.**—A study of leading principles of American Government, as developed through judicial interpretation of the Constitution. 3 s.h. PROFESSOR WILSON

\* Absent on leave, second semester, 1939-40.



**209. State and Local Government in the United States.**—A study of the historical development of state and local governments, their present organization, their relation to each other and to the federal government. 3 s.h.

PROFESSOR RANKIN

**211. Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea, and China from the Chou Dynasty to the present. 3 s.h.

DR. LINEBARGER

**212. International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h.

[Not offered in 1939-40]

DR. LINEBARGER

**214. The Minor States of the Far East.**—A study of the domestic institutions of the minor states of the Far East, and their positions in pre-modern and modern international politics. 3 s.h.

DR. LINEBARGER

**223. Political Thought to the Seventeenth Century.**—A survey of political thought from the time of Plato to the close of the sixteenth century. 3 s.h.

PROFESSOR WILSON

**224. Modern Political Theory.**—Political theories of the seventeenth and eighteenth centuries, and of the first half of the nineteenth, with a study of their influence upon modern political institutions. 3 s.h.

PROFESSOR WILSON

**225-226. Comparative Government.**—A comparative study of modern political institutions, with special reference to bureaucracy, federalism, fascism, dictatorship, constitutions, representation, parliamentarism, and separation of powers. 6 s.h.

ASSOCIATE PROFESSOR COLE

**227-228. International Law and International Organization.**—Elements of international law, and a study of certain international organizations from the point of view of their significance for international law. 6 s.h.

PROFESSOR WILSON

**229. Recent and Contemporary Political Theory.**—A study of the more significant contributions to political theory from 1850 to the present. 3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR COLE

**230. American Political Institutions.**—A study of the formation and development of institutions of the national government in the United States, with historical and analytical treatment. 3 s.h.

PROFESSOR RANKIN

**241-242. The Administrative Process.**—The function and theory of organization, co-ordinating functions, delegated legislation, administrative adjudication, the control of administration, public relations, and special problems in regulation, economic balancing and proprietary activities. 6 s.h.

ASSOCIATE PROFESSOR SHIPMAN

**244. Administrative Law.**—Public law as applied to the administrative process including the nature of regulatory authority, the status and liability of public officers, administrative tribunals, and the judicial review of administrative action. 3 s.h.

ASSOCIATE PROFESSOR SHIPMAN

[Not offered in 1939-40]

**246. Legislation.**—A study of the legislative process with attention to procedure, methods, techniques, delegation of discretion, and the use of controls. 3 s.h.

ASSOCIATE PROFESSOR SHIPMAN

[Not offered in 1939-40]

**271. Socio-Politics and Capitalism.**—Labor and labor policies in Western Europe and the United States from the early nineteenth century to the World War, and socio-political developments in the post-War world. 3 s.h.

PROFESSOR VON BECKERATH



**291. Municipal Government.**—A study of general problems relating to the structural system and activities of municipalities in the United States. 3 s.h.  
PROFESSOR RANKIN

**292. Municipal Administration.**—A study of principles and methods of municipal administration in the United States. 3 s.h. PROFESSOR RANKIN

## FOR GRADUATES

**310. Seminar in State Government.**—Open to students who have completed course 209 or its equivalent. 3 s.h. PROFESSOR RANKIN  
[Not offered in 1939-40]

**326. Seminar in Comparative Government.**—Open to students who have completed course 225-226 or its equivalent. 3 s.h. ASSOCIATE PROFESSOR COLE

**328. Seminar in International Law.**—Open to students who have completed course 227-228 or its equivalent, or who may be taking that course. 3 s.h. PROFESSOR WILSON  
[Not offered in 1939-40]

## RELATED COURSES IN OTHER DEPARTMENTS

**Economics 230. Public Debts in the United States.**—3 s.h.  
ASSISTANT PROFESSOR RATCHFORD

**Economics 265. International Trade and Tariff Policies.**—3 s.h.  
PROFESSOR VON BECKERATH

**Economics 266. International Finance.**—3 s.h. PROFESSOR HAMILTON

**Economics 316. Economic Functions of the State.**—3 s.h.  
PROFESSOR HOOVER

**History 215-216. History of the Foreign Relations of the United States.**—6 s.h. ASSOCIATE PROFESSOR CLYDE

**History 217-218. Europe since 1870.**—6 s.h. PROFESSOR CARROLL  
[Not offered in 1939-40]

**History 234. Political and Social Problems in the Hispanic American Republics.**—3 s.h. ASSOCIATE PROFESSOR LANNING

**Philosophy 208. Political Philosophy.**—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR MORGAN

**Sociology 213. Constructive Social Policies.**—2 s.h. PROFESSOR JENSEN

**Readings in Jurisprudence.**—Offered in the School of Law.  
PROFESSOR FULLER

**Roman Law.**—Offered in the School of Law. PROFESSOR FULLER

## PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES\*; PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER

The aim of the Department is to provide opportunity for study along broad and varied lines, both in theoretical and experimental work in the field of psychology. The scope of interest represented covers the principal lines of subject matter dealing with child, adult, and animal psychology. An unusual variety of theoretical viewpoints is represented on the Staff. The emphasis in the presentation of courses will be, however, less upon quantity and extent than upon balance and selective representation.

\* Deceased, November 28, 1938.

In the direction of research done by graduate students, two general aims will be kept in mind: that of training and that of fruitful achievement. The research carried out for the Master's thesis will be primarily directed with the purpose of training the student. For the Ph.D. thesis, however, there will be a primary emphasis upon the importance of the research and there will be expectation of original contribution.

It is expected that the graduate students will have entered with preparation equivalent to the undergraduate courses offered by this Department. A reading knowledge of French and German is desirable from the beginning and in no case should the acquisition of this be postponed later than the beginning of the second year.

No limitation is laid down as to the departments in which it is possible to minor. In doing graduate study in psychology, those branches of study which are looked upon with most favor, however, are education, sociology, zoology, physiology, and philosophy.

Encouragement is given to originality and freedom in thinking in the individual research of the student. There is wide tolerance of subject matter for research.

FOR SENIORS AND GRADUATES

- |  |  |
|--|--|
| 201. Social Psychology.—3 s.h.   | ASSOCIATE PROFESSOR ADAMS  |
| 202. Psychology of Aesthetics.—3 s.h.  | PROFESSOR LUNDHOLM   |
| 204. Psychology of Motivation.—3 s.h.  | ASSOCIATE PROFESSOR ZENER  |
| 207. Psychology of Memory, Perceiving, Thinking.—Experimental and theoretical contributions to the psychology of memory, perceiving, thinking.<br>3 s.h. | ASSOCIATE PROFESSOR ZENER  |
| [In 1939-40 offered in the spring semester only]   |  |
| 209. Experimental Methods in Human Psychology.—Laboratory and lectures. 4 s.h.   | ASSOCIATE PROFESSOR ZENER  |
| 211. Physiological Psychology.—3 s.h.  | ASSOCIATE PROFESSOR ZENER  |
| [Not offered in 1939-40]   |  |
| 212. Developmental Psychology.—Psychology of Childhood and Youth.<br>3 s.h.  | PROFESSOR —————  |
| 216. Seminar in Comparative Psychology.—2 or 3 s.h.  | ASSOCIATE PROFESSOR ADAMS  |
| 217. Gestalt Theory.—3 s.h.  | ASSOCIATE PROFESSOR ADAMS  |
| [Not offered in 1939-40]   |  |
| 219. History of Psychology.—2 s.h.   | PROFESSOR MCDUGALL*  |
| 223. Abnormal Psychology.—3 s.h.   | PROFESSOR LUNDHOLM   |
| 226. Contemporary Schools of Psychology.—3 s.h.  | ASSOCIATE PROFESSOR ZENER  |
| [Not offered in 1939-40]   |  |
| 228. Psychology of Belief.—2 s.h.  | PROFESSOR LUNDHOLM   |
| [Not offered in 1939-40]   |  |
| 229. Seminar in Child Psychology.—2 or 3 s.h.  | PROFESSOR —————  |
| 231-232. Introduction to Research.—Open to Seniors after consultation with the staff member supervising the research. 2 or 3 s.h.                        | PROFESSORS MCDUGALL,* LUNDHOLM, AND RHINE;<br>ASSOCIATE PROFESSORS ADAMS AND ZENER |
| 233. Social Psychology of Value and Valuation.—2 s.h.  | PROFESSOR MCDUGALL*  |

\* Deceased, November 28, 1938.

## FOR GRADUATES

302. Seminar on Psychoanalysis.—3 s.h. PROFESSOR LUNDHOLM
- 303-304. Research.—2 or 3 s.h.  
PROFESSORS McDUGALL,\* LUNDHOLM, AND RHINE;  
ASSOCIATE PROFESSORS ADAMS AND ZENER
305. Seminar.—2 or 3 s.h. PROFESSOR McDUGALL\*
306. Seminar in Child Psychology.—2 or 3 s.h.  
ASSOCIATE PROFESSOR ADAMS
307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE
309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS  
[Not offered in 1939-40]
- 313-314. Seminar in Parapsychology.—6 s.h. PROFESSOR RHINE  
[Not offered in 1939-40]
315. Child Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
317. Seminar: Special Problems in the Psychology of Aesthetics.—3 s.h.  
PROFESSOR LUNDHOLM

## RELIGION

Graduate work in the field of religion is available in the following departments: Old Testament, New Testament, Christian Doctrine, Church History, Religious Education, Psychology of Religion, History of Religion, Philosophy, and Sociology. Students interested in graduate work in these fields are referred to the *Bulletin of the School of Religion of Duke University*. All the courses listed there, except those of a professional character, may be offered for credit toward the degrees of the Graduate School. A number of these courses will be found listed in this bulletin also under the headings of related departments.

It is possible to secure work leading to the degree of Doctor of Philosophy in a number of these fields. For this degree the departmental groupings of courses are ignored and a program of work is planned for each candidate in which the total resources of the Graduate School will be utilized in so far as they relate to the student's needs and special subject of investigation.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN—107 GRAY BUILDING; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES—106 GRAY BUILDING; PROFESSOR COWPER;†  
ASSOCIATE PROFESSORS LUNDEBERG AND WALTON

To be eligible for graduate study in this Department, the student should have credit for four years of college work in the chosen language; or eighteen hours beyond the conventional two units offered at entrance to college. In addition to this minimum requirement, one semester of composition and grammar review is highly desirable.

It is recommended that candidates for the Master's degree take a second Romance Language for the minor subject.

A candidate for the Ph.D. degree should be equipped to follow graduate courses in a second Romance Language. Some training in Romance Linguistics will be required for this degree, the amount to be determined by the Department upon consideration of the student's preparation in the field.

\* Deceased, November 28, 1938.

† Absent on leave, second semester, 1939-40.

## FRENCH

## FOR SENIORS AND GRADUATES

213-214. **The Classical Movement in French Literature of the Seventeenth and Eighteenth Centuries.**—6 s.h. ASSOCIATE PROFESSOR WALTON

215-216. **The Modern French Novel.**—A survey of the novel form from the seventeenth to the twentieth centuries, with particular attention to the analysis of fundamental literary tendencies: classicism, rationalism, romanticism, and realism. 6 s.h. PROFESSOR JORDAN

217. **French Phonetics.**—French sounds and French spelling; pronunciation drills; exercises in phonetic transcription and dictation; aural comprehension. 3 s.h. PROFESSOR WEBB

218. **Materials and Methods.**—History of the teaching of French; methods; the course of study; analysis and criticism of representative texts; tests and examinations; objectives in the light of teaching conditions, equipment, and future application. 3 s.h. PROFESSOR WEBB

219. **Old French.**—An introduction to the Old French language and literature. 3 s.h. PROFESSOR COWPER

[Not offered in 1939-40]

220. **Old French.**—Types of Old French literature. 3 s.h. PROFESSOR COWPER

[Not offered in 1939-40]

227. **French Poetry since Théophile Gautier.**—3 s.h. ASSOCIATE PROFESSOR WALTON

[Not offered in 1939-40]

232. **Rousseau and the Beginnings of Romanticism.**—3 s.h. PROFESSOR COWPER

[Not offered in 1939-40]

233. **Main Currents of Modern French Literature.**—A survey of the principal literary tendencies from the seventeenth to the nineteenth centuries. Selected illustrative readings from leading authors. 3 s.h.

[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON

## FOR GRADUATES

317. **History of the French Language.**—3 s.h. PROFESSOR COWPER

323-324. **Realism and Naturalism.**—6 s.h. PROFESSOR JORDAN

325-326. **French Literature in the Sixteenth Century.**—6 s.h. ASSOCIATE PROFESSOR WALTON

[Not offered in 1939-40]

328. **Anatole France.**—3 s.h. ASSOCIATE PROFESSOR WALTON

[Not offered in 1939-40]

329. **History of French Civilization.**—3 s.h. PROFESSOR WEBB

[Not offered in 1939-40]

330. **Victor Hugo.**—3 s.h. PROFESSOR WEBB

[Not offered in 1939-40]

331. **Diderot and the Encyclopédie.**—3 s.h. PROFESSOR COWPER

[Not offered in 1939-40]

333-334. **Contemporary French Literature.**—6 s.h. PROFESSOR JORDAN

[Not offered in 1939-40]

350. **Nineteenth-Century French Criticism.**—3 s.h. PROFESSOR JORDAN

[Not offered in 1939-40]

## SPANISH

FOR SENIORS AND GRADUATES

**253. Spanish Phonetics.**—The sounds of the Spanish language; sound changes; intonation; exercises in transcription; regional pronunciation; limited use of electrical recording machines. Prerequisites: Spanish 65-66, or 3-4 with permission. (Enrollment limited to fifteen students.) 3 s.h.

ASSOCIATE PROFESSOR LUNDEBERG

**254. Materials and Methods.**—History of the teaching of Spanish; survey of methods and objectives; evaluation of representative texts; tests, word counts and auxiliary devices; the course of study. Prerequisites: Spanish 65-66 or equivalent. 3 s.h.

ASSOCIATE PROFESSOR LUNDEBERG

**261-262. The Modern Spanish Novel.**—6 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR LUNDEBERG

**265. Golden Age Literature: Cervantes.**—The *Novelas ejemplares*: analytic study of the tales, their sources, style, literary importance, and influence on world literature. 3 s.h.

ASSOCIATE PROFESSOR LUNDEBERG

**266. Golden Age Literature: The Don Juan Theme.**—Study of representative Don Juan plays of the Golden Age; special reference to the use of this motif by later writers in Spain and abroad. 3 s.h.

ASSOCIATE PROFESSOR LUNDEBERG

## SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES—303 GRAY BUILDING; PROFESSORS GROVES, HART, AND JENSEN; ASSISTANT PROFESSOR THOMPSON

**205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

**206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

**212. Child Welfare.**—A study of heredity and environment as factors in personality development; infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, and compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

[Not offered in 1939-40]

**213. Constructive Social Policies.**—An intensive study of the theories and legislation dealing with such problems as compensation, vocational re-education, and other methods of social insurance and social improvement. 2 s.h.

PROFESSOR JENSEN



**219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. Prerequisite: course 91-92 or 101. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

**220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. Prerequisite: course 91-92 or 101. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

**227. Emigration and Immigration.**—A study of territorial movements of population with especial reference to Europe and America. Causes and extent of migration; its effect upon American and European society; origin and characteristics of immigrant groups and their organization in the New World; problems, agencies, and processes of assimilation. Prerequisite: course 91-92 or 101. 3 s.h.

PROFESSOR JENSEN

[Not offered in 1939-40]

**231. General Anthropology.**—A study of the evolution of man and of human culture. The prehistoric human types; modern races; the evolution of tools, technology, family life, political institutions, art, and language. 3 s.h.

PROFESSOR HART

**232. Cultural Anthropology.**—A study of the processes of cultural change. The emergence of magic, religion, morals, and science; invention and diffusion; the dynamics of social change; the role and methods of the social innovator. 3 s.h.

PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—Present world issues in the light of the trends of human culture and of the dynamic processes through which men may take part in determining the future of civilization. 3 s.h.

PROFESSOR HART

**234. Social Ethics.**—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men, particularly capacities for creative co-operation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? 3 s.h.

PROFESSOR HART

**236. The American Indian.**—The origin, history, and culture of the American Indian stocks, with especial reference to those of North America. 3 s.h.

[Not offered in 1939-40]

**242. Marriage and the Family.**—An analysis of contemporary marriage and family experience with emphasis on its functions, problems, resources, and values. Prerequisite for undergraduate credit: Sociology 91-92 or 101. 2 s.h.

PROFESSOR GROVES

**251. Education and Social Control.**—A study of education as an agency of social progress from primitive times to the present. 2 s.h.

PROFESSOR ELLWOOD

#### FOR GRADUATES

**317. Seminar in Anthropology.**—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. Only students who have satisfactorily completed courses 231 and 232, or their equivalents, will be admitted. 1 to 3 s.h.

PROFESSOR HART

**318. Religion and the World Crisis.**—An inquiry into the bearings of religion upon the past social evolution and upon the possible future development of civilization. 3 s.h.

PROFESSOR HART

**319. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. Discussions and papers by the class. **3 s.h.**

PROFESSOR ELLWOOD

**320. History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present: the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Schaeffle, Lilienfeldt, Gumpлович, Ratzenhofer, and Ward will, among others, be considered. A large amount of assigned reading will be required in this course. The student is advised to correlate this course with related courses in economics, history, political science, and philosophy. **3 s.h.**

PROFESSORS ELLWOOD AND JENSEN

**322. Methods of Social Research.**—A study of the various methods of research and investigation that can be applied to the study of social phenomena. **3 s.h.**

PROFESSOR JENSEN

**330. Seminar.**—Research work upon special problems in sociology and social work. One hour each week throughout the year. **1 s.h. each semester.**

PROFESSORS ELLWOOD, HART, AND JENSEN;

ASSISTANT PROFESSOR THOMPSON

**340. Seminar.**—Special problems in race relations, urban and rural life, and the sociology of the South generally. **3 s.h. each semester.**

ASSISTANT PROFESSOR THOMPSON

**350. Seminar in Applied Sociology.**—Special research problems in social pathology, child welfare, criminology and related topics. **1 to 3 s.h. each semester.**

PROFESSOR JENSEN

**351. Seminar in Medical Sociology.**—The basic principles of the various medical specialties as applied to the problems of marriage and the family. Open only to graduate students in Sociology, with the consent of the instructor and of the Director of Graduate Studies. Given by the Staff of the Medical School under the direction of Dr. Bayard Carter, M.D. **2 s.h.**

**352. Seminar in Family Law.**—A seminar approach to the efforts of the social sciences, including law, to deal with the intricate and perplexing problems of the modern family. Readings are assigned in legal and sociological material. **2 s.h.**

PROFESSOR BRADWAY

#### RELATED COURSES IN OTHER DEPARTMENTS

**Economics 218. Population Problems and the Standard of Living.**—**3 s.h.**

PROFESSOR SPENGLER

**Economics 315. Economic Systems.**—**3 s.h.**

PROFESSOR HOOVER

**Economics 316. Economic Functions of the State.**—**3 s.h.**

PROFESSOR HOOVER

**Philosophy 205. Philosophy of History.**—**3 s.h.**

PROFESSOR WIDGERY

[Not offered in 1939-40]

**Political Science 223. Political Thought to the Seventeenth Century.**—**3 s.h.**

PROFESSOR WILSON

**Political Science 224. Modern Political Theory.**—**3 s.h.**

PROFESSOR WILSON

**Psychology 201. Social Psychology.**—**2 s.h.** ASSOCIATE PROFESSOR ADAMS

## ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN—219 BIOLOGY BUILDING; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES—326 BIOLOGY BUILDING; PROFESSORS CUNNINGHAM AND HALL; ASSOCIATE PROFESSOR GRAY; DR. BOOKHOUT

For admission to the A.M. degree candidates should have completed about twenty-four hours of course work in Zoology, distributed among various fields; at least one year each of Chemistry and Physics; and have attained some knowledge of French and German. The zoology courses should have been passed with good grades. Work for the degree will require about eighteen hours in advanced courses in zoology, six hours in a minor field, and a thesis.

For admission to candidacy for the Ph.D. degree it is expected that twenty-four to thirty hours of zoology courses should have been completed with good grades: one year each of Botany, Chemistry, and Physics; and a reading knowledge of French and German attained. A knowledge of organic chemistry is desirable. Toward the end of the first year of residence a committee will be appointed for each candidate, which will review his preparation and set specific requirements which must be met to receive the degree. This program will include one or more graduate courses in each of several fields of Zoology; broad knowledge of science in general and of biology in particular, attained by wide reading; required major and minor courses, and research; and a satisfactory dissertation which is the result of original work. The Department expects that at least a first draft of the dissertation shall be complete by March 15 of the year in which the degree is to be conferred. At least one year before the degree is to be conferred each candidate must pass an examination on the whole field of zoology and the minor.

## FOR SENIORS AND GRADUATES

**204. Advanced Parasitology.**—Lectures, conferences, readings and laboratory work, dealing with practical and theoretical matters relating to animal parasites. Offered in alternate years. Prerequisite: Zoology 161. 3 or 4 s.h. PROFESSOR PEARSE

[Not offered in 1939-40]

**219-220. Special Problems.**—Students who have had proper training may carry on special work under direction of members of the department. (Not more than four hours of credit may be obtained in one semester.) STAFF

**222. Entomology.**—Anatomy, physiology, embryology and classification of insects. Offered in alternate years. Prerequisite: one year of zoology. 4 s.h. ASSOCIATE PROFESSOR GRAY

**224. Vertebrate Zoology.**—A study of the life histories, adaptations, ecology, and classification of vertebrate animals. Offered in alternate years. Prerequisite: Zoology 53. 4 s.h. ASSOCIATE PROFESSOR GRAY

[Not offered in 1939-40]

**229. Endocrinology.**—The structure, physiology, and embryology of the endocrine glands. Lectures, reading assignments, and reports. Prerequisite: Zoology 53, 92. 3 or 4 s.h. PROFESSOR CUNNINGHAM

## FOR GRADUATES

**303. Ecology.**—Relation of animals to environment. Lectures, readings, reports, conferences; laboratory and field work. Offered in alternate years. 4 s.h. PROFESSOR PEARSE

[Not offered in 1939-40]

**306. Advanced Ecology.**—Lectures, conferences, field work and methods. Offered in alternate years. Prerequisite: Zoology 303. 4 s.h.

[Not offered in 1939-40]

PROFESSOR PEARSE

**307. Foundations of Zoology.**—Lectures, readings, and discussions on the background and training essential for a professional zoologist. Offered in alternate years. 2 s.h. PROFESSOR PEARSE

**321. General Physiology.**—Comparative study of functions in all animal groups, especially of vertebrates. Lectures, laboratory work, and conferences. 4 s.h. PROFESSOR HALL

**324. Advanced Physiology.**—Present-day problems in physiology, with laboratory projects involving precise instrumental analyses. Lectures, conferences, and laboratory work. Prerequisite: Zoology 151 or 321. 4 s.h. PROFESSOR HALL

**327. Experimental Embryology.**—Lectures, assigned readings, and reports. Offered in alternate years. Prerequisites: Zoology 92, 151 or 321. 3 s.h. PROFESSOR CUNNINGHAM

**341. Historical and Philosophical Zoology.**—Readings and discussions. A critical study of the development of modern biological concepts and theories, their past and present significance. Offered in alternate years. 2 s.h. [Not offered in 1939-40] PROFESSOR HARGITT

**343. Cytology.**—The structure of the cell. Lectures, readings, reports and laboratory work. Offered in alternate years. Prerequisites: Zoology 53, 92, 156 or equivalents. 4 s.h. PROFESSOR HARGITT

**351-352. Zoological Journal Club.**—A weekly meeting of graduate students and faculty to hear reports and to discuss biological facts, theories, and problems. One hour a week throughout the year. Required of all graduate students who major in zoology. 2 s.h. STAFF

**353-354. Research.**—Students who have had proper training may carry on research under direction of members of the Staff, in the following fields:

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|--|--------------------------|
| (a) Embryology and Endocrinology.        | PROFESSOR CUNNINGHAM     |
| (b) Comparative and General Physiology.  | PROFESSOR HALL           |
| (c) Histology and Cytology.              | PROFESSOR HARGITT        |
| (d) Invertebrate Zoology.                | DR. BOOKHOUT             |
| (e) Ecology, Parasitology, and Behavior. | PROFESSOR PEARSE         |
| (f) Vertebrate Zoology and Entomology.   | ASSOCIATE PROFESSOR GRAY |
- Hours and credits to be arranged.

**355-356. Seminar.**—Special seminar courses in particular fields are given by various professors when the number of students makes them desirable. Hours and credits to be arranged.

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|--|--------------------------|
| *(a) Embryology and Endocrinology.       | PROFESSOR CUNNINGHAM     |
| *(b) Comparative and General Physiology. | PROFESSOR HALL           |
| *(c) Histology and Cytology.             | PROFESSOR HARGITT        |
| (d) Invertebrate Zoology.                | DR. BOOKHOUT             |
| (e) Ecology, Parasitology, and Behavior. | PROFESSOR PEARSE         |
| *(f) Vertebrate Zoology and Entomology.  | ASSOCIATE PROFESSOR GRAY |

#### RELATED COURSES IN OTHER DEPARTMENTS

Courses such as the following should be considered as available for students in zoology:

**Botany 202. Genetics.**—4 s.h.

ASSISTANT PROFESSOR PERRY

\* [Not offered in 1939-40.]



- Botany 221. Structure and Classification of Fungi.—4 s.h.  
PROFESSOR WOLF
- Botany 256. Field Ecology.—4 s.h. ASSISTANT PROFESSOR OOSTING
- Botany 341. Methods in Plant Physiology.—4 s.h.  
ASSOCIATE PROFESSOR KRAMER
- Botany 342. Plant Microchemistry.—2 s.h. ASSISTANT PROFESSOR ADDOMS
- Chemistry 261-262. Physical Chemistry.—6 s.h.  
PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS
- Physics 103. Electricity and Magnetism.—(Undergraduate credit only.)  
3 s.h. ASSISTANT PROFESSOR CONSTANT
- Physics 104. Electrical Measurements.—(Undergraduate credit only.)  
3 s.h. PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT
- Physics 205-206. Physical Optics.—6 s.h. PROFESSOR HATLEY
- M221. Bacteriology and Immunology.—4 s.h.  
DR. D. T. SMITH AND STAFF
- M323. Advanced Bacteriology and Immunology.—8 s.h.  
DR. D. T. SMITH AND STAFF
- M241. General Biochemistry.—6 s.h.  
DRS. PERLZWEIG AND TAYLOR, AND STAFF
- M263. Physiology of Digestion, Metabolism, and Nutrition.—2 s.h.  
DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM
- M363-364. Advanced Seminar in Nutrition.—4 s.h. DR. DANN

### COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, PERLZWEIG, D. T. SMITH, AND SWETT; ASSOCIATE PROFESSORS F. M. BERNHEIM, HETHERINGTON, MARTIN, MCCREA, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, DANN, AND YATES; DRS. CONANT, COOLIDGE, EVERETT, HOLLINSHEAD, NEURATH, AND YOUNGSTROM

The facilities of the departments listed below are available to qualified students for independent or supervised research and investigations whether working for advanced degrees or otherwise.

Graduate students desiring to pursue a major or a minor in any of the departments listed below or to be admitted to any of the courses listed below should consult the head of the Department concerned or his representative before registering.

#### ANATOMY

M201. Gross Human Anatomy.—A course especially designed for graduate students, comprising a complete dissection of the cadaver. The laboratory work is supplemented by conferences which place emphasis on the biological aspects of the subject. *Fall and winter quarters.* Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: Zoology 41 and 191 or the equivalent.  
DR. SWETT AND STAFF

M202. Microscopic Anatomy.—Conferences and laboratory work on the morphological characteristics of the tissues of the animal body. The work is based upon a study of fresh and prepared material and is approached from the physiological viewpoint. *Fall quarter.* Hours and credits (maximum 2 s.h.) by arrangement. Prerequisite: Zoology 42 (General Histology) or its equivalent.  
DR. HETHERINGTON AND STAFF



**M203. Anatomy of the Nervous System.**—A study of the gross and microscopic structure of the human central nervous system, special attention being paid to the structural and functional relationships between the various nuclei and fiber tracts. *Winter quarter.* Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201. DR. HETHERINGTON

**M204. Human Embryology.**—A lecture and seminar course dealing with the development of the individual with especial reference to the human. Laboratory work, hours and credits (maximum 2 s.h.) by arrangement. Limited to eight students. Prerequisites: Zoology 41 and 191. DR. SWETT AND STAFF

**M205. Regional Anatomy.**—A study of transverse sections of the human body for the purpose of establishing the spatial relationships of the various organs. Hours and credits (maximum 3 s.h.) by arrangement. Prerequisites: Anatomy M201 and M202. DR. SWETT AND STAFF

#### BACTERIOLOGY AND IMMUNOLOGY

**M221. Bacteriology and Immunology.**—This course is devoted primarily to the study of the biological and immunological relationships of micro-organisms in disease. It is not a course in bacteriologic technique. An additional course in technical methods is provided for those who require it. Two hours lecture and 8 hours laboratory per week in fall quarter. Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h.

DR. D. T. SMITH AND STAFF

**M223. Advanced Bacteriology and Immunology.**—This course is intended primarily for graduate students majoring in bacteriology, but it is also available as a minor to such other graduate students in related fields, to whom it is recommended by respective supervising committees and with the approval of the Department of Bacteriology. 8 s.h. DR. D. T. SMITH AND STAFF

#### BIOCHEMISTRY

**M241. General Biochemistry.**—Three lectures, four laboratory periods of three hours each, and one two-hour seminar weekly for eleven weeks. Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* 6 s.h. DRs. PERLZWEIG AND TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Eight hours laboratory with conferences when necessary. This course involves detailed study of the chemistry of enzymes, proteins, fats, carbohydrates and derivatives. Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. 2 s.h.

DR. TAYLOR AND STAFF

**M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.**—Special emphasis is given to the structure and physical chemistry of proteins, enzymes, viruses, etc. Two hours per week throughout the year. DR. NEURATH

**M341. Pathological Chemistry.**—Seminar course devoted to a detailed study of the chemical and physical chemical aspects of normal and abnormal metabolism. Two hours per week by arrangement. Prerequisites: Biochemistry M241 and Physiology M251-2. *Spring quarter.*

Laboratory work consisting chiefly of blood and urine analysis in relation to problems discussed will be provided for students desiring it.

DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

## PHYSIOLOGY AND PHARMACOLOGY

**M261-2. Human Physiology and Pharmacology.**—Six lectures and twenty laboratory hours per week. Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. *Spring quarter.* Credits depending on work taken. (Maximum 8 s.h.)

The lectures in pharmacology, two hours per week, are included in this course and may be taken separately or omitted, depending upon the needs of the student.

DR. EADIE AND STAFF

**M263. Physiology of Digestion, Metabolism, and Nutrition.**—Two hours lectures and conferences and the equivalent of one laboratory period of three hours per week. Prerequisite: Biochemistry M241. *Spring quarter.* 2 s.h.

This course constitutes a part of Physiology M261-2, but may be taken separately.

DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

**M363-4. Advanced Seminar in Nutrition.**—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h.

DR. DANN

## ADVANCED DEGREES CONFERRED JUNE 6, 1938

### MASTER OF ARTS

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|--|---|
| <p>Abee, Florence Edwina<br/>           *Ashworth, Rufus Charles<br/>           *Baucom, Thomas Victor<br/>           *Beamer, Celestine Marie<br/>           *Bennett, Georgia Belle<br/>           Burke, William Miller<br/>           Cain, Herbert Lloyd<br/>           *Carter, Judson McGilvray<br/>           *Cecil, Levi Moffitt, Jr.<br/>           *Cobb, Jacob Ernest<br/>           Cody, Frances Perle<br/>           Cooper, Gerald Rice<br/>           *Critchfield, Clara<br/>           *Davis, Alberta Lee<br/>           *de Treville, Marie Louise<br/>           Dickson, Bonnie Ethel<br/>           *Dooley, Emilie Phoebe<br/>           *Dribben, William Barnett<br/>           Efrid, Laura Christine<br/>           *Eyler, William Andrew, Jr.<br/>           Feister, Irving<br/>           *Firebaugh, Joseph Jesse<br/>           *Fischer, Monroe Carl<br/>           *Fishburne, Margaret Greene<br/>           *Fisher, Jesse Gilbert<br/>           Flora, William Evans Sherlock<br/>           *Frazer, Emmet Manly<br/>           Goings, William Thornbury<br/>           *Griggs, Georgia May<br/>           *Hair, Clifton LeCroy<br/>           Hartz, Edwin Ruben<br/>           *Hickey, Robert Louis<br/>           *Hill, Johnsie Cooke<br/>           Hoffman, Raymond Norton<br/>           Hudnall, Eva Irene<br/>           Humphreys, Mary Emily<br/>           *Hunt, Melba Cleo<br/>           *Jester, Joseph Richardson<br/>           Johnson, Eric Gustav<br/>           *Jones, Melville Lewis<br/>           Keese, Aubrey Mays<br/>           *Kelly, Edward Hetherton<br/>           *Lacey, Mary Frances<br/>           *Ladner, Heber Austin</p> | <p>*Landrum, Louella<br/>           Lansdell, Emily Kilpatrick<br/>           Lee, Emily Markham<br/>           Louis, William K.<br/>           Martin, James Alfred, Jr.<br/>           *McAllister, Birdie<br/>           McCracken, Mary Lee<br/>           *MacInnes, Donald Boyer<br/>           *Mercer, Julia<br/>           Miller, Elizabeth Moore<br/>           *Munsey, Lassie May<br/>           Nakamura, Junichi<br/>           Olliff, Martha Walker<br/>           *Palmer, Grover Winfield<br/>           *Parr, Lois Alberta<br/>           *Pettengill, Rita Barbara<br/>           *Piedra, Harry Tiburt<br/>           *Porter, Helen Elizabeth<br/>           *Porter, Julia Adeline<br/>           *Powell, Caroline Egerton<br/>           *Powell, Donald Moore<br/>           Pratt, Lanier Ward<br/>           *Price, Albert Lee<br/>           *Purcell, James Slicer, Jr.<br/>           *Randle, Clinton Wilson<br/>           *Reeves, William Thomas<br/>           Rollins, Roy Eugene<br/>           *Schmidt, Frederick Jacob<br/>           Shields, Margaret Virginia<br/>           Simmons, Edgar Boyd<br/>           *Smith, Allen Candler<br/>           *Smith, Frank Ferrell<br/>           *Smith, Oscar<br/>           Smith, Rebecca<br/>           *Snyder, William Ulrich<br/>           *Stalnaker, Lillian<br/>           *Steer, Alfred Gilbert, Jr.<br/>           *Stephens, Arey<br/>           Taylor, Charles Theodore<br/>           *Toole, Eben Richard<br/>           Vernon, Sarah Elizabeth<br/>           *Walter, Selwyn Bernard<br/>           *Wood, Gordon Reid<br/>           *Young, DeWalt Secrist</p> |
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### MASTER OF EDUCATION

- |   |  |
|---|--|
| <p>*Akins, Charles Wesley<br/>           *Bailey, Eugene Cassidy<br/>           *Bobo, William Pervy<br/>           *Boyer, Charles Victor<br/>           *Carson, Louis Frederick<br/>           *Conard, Thomas Pennington<br/>           *Crowe, Frank Chapman</p> | <p>*Fisher, Cleo Edith<br/>           *Fletcher, Ward Thomas<br/>           *Harris, Arthur Small, Jr.<br/>           *Henritze, Welch Hudson, Jr.<br/>           *Hernick, Michael Edward<br/>           *Hetrick, Charles Raymond<br/>           *Hill, Benjamin Frederick</p> |
|---|--|

\* Degree conferred *in absentia*.

Hoffman, Ira Penn	*Ray, Cora Miller
Hoffman, Ruth Elizabeth Parnell	Rein, William Christopher
Kuhn, Robert Elwood	*Renfro, Carl Gilbert
*Permenter, Walter Newton, Jr.	*Schneider, Julius August
*Perry, Gilbert Vincent	*Shull, Paul Eugene
*Pierce, Lucile	*Spangler, Arthur Hodson
Planck, Carl Gustav	Stover, Kermit Martin
Plymale, Pearl Boggess	Taylor, Noel Alexander
Plymale, Rexford Puryear	Wagner, Horace McDonald

## DOCTOR OF PHILOSOPHY

- BROWN, JAMES WILSON, B.S., University of Maryland; A.M., Duke.  
Dissertation: *Respiration of Acorns as Related to Temperature and After-Ripening.*
- BURNSIDE, MAURICE GWINN, B.S., Furman University; A.M., University of Texas.  
Dissertation: *Pardon, Parole, and Indeterminate Sentence with Special Reference to South Carolina.*
- CALFEE, JOHN DOUGLAS, A.B., Park College; M.S., University of Tennessee.  
Dissertation: *A Study of the Vapor Phase Fluorination of Certain Aliphatic Organic Compounds.*
- CARNEY, JAMES JOSEPH, JR., A.B., A.M., Harvard University.  
Dissertation: *Some Aspects of Spanish Colonial Policy.*
- COY, NETTIE HELENA, A.B., University of New Brunswick; A.M., Columbia University.  
Dissertation: *Investigation of the Emission Spectra of Antimony Nitride and Bismuth Nitride.*
- CULBRETH, SARAH ELIZABETH, A.B., A.M., Duke.  
Dissertation: *Studies on Certain Aspects of the Normal and Anaerobic Metabolism of Fresh Water Mussels.*
- DAVIS, CHARLES SHEPARD, B.S., M.S., Alabama Polytechnic Institute.  
Dissertation: *The Plantation System in Alabama before 1860.*
- DELANCY, FRANCIS PRISCILLA, A.B., A.M., West Virginia University.  
Dissertation: *The Licensing of Professions in West Virginia.*
- DEMOND, ROBERT ORLEY, A.B., A.M., Syracuse University.  
Dissertation: *The Loyalists in North Carolina during the Revolution.*
- DUNCAN, WILBUR HOWARD, A.B., A.M., Indiana University.  
Dissertation: *A Study of Root Development in Three Soil Types in the Duke Forest.*
- EGGERS, GRAYDON POE, A.B., Carson-Newman College; A.M., Duke.  
Dissertation: *The Social Novel in England, 1832-1890.*
- FLUEGEL, EDNA ROSE, A.B., Marywood College; A.M., Duke.  
Dissertation: *Concepts of Economic Liberty and the United States Supreme Court: A Study in Judicial Thought.*
- GARREN, KENNETH HOWARD, A.B., A.M., Duke.  
Dissertation: *A Study of Polyporus Abietinus, the Cause of the Pitted Sapwood Rot of Pines.*
- HAMILTON, WILLIAM BASKERVILLE, JR., A.B., A.M., University of Mississippi.  
Dissertation: *American Beginnings in the Old Southwest: The Mississippi Phase.*
- HOPKINS, JOHN ISAAC, B.S., A.M., Duke.  
Dissertation: *A Wilson Cloud Chamber Study of Cosmic Ray Particles.*
- \*JOHNSTON, THOMAS McNAUGHTON, B.S., Washington and Jefferson College; A.M., Tulane University.  
Dissertation: *The Neo-Classical Background of Robert Lowth's Lectures on the Sacred Poetry of the Hebrews.*

\* Degree conferred in absentia.

- LIGON, EDGAR WILLIAM, JR., B.S., University of Richmond.  
Dissertation: *The Cytological Structure of the Digestive System of the Lamellibranch Mollusc, Musculium (Sphaeriidae)*.
- \*McCORD, WILLIAM FLETCHER, A.B., Mercer University.  
Dissertation: *The Delayed Reaction and Memory in Rats*.
- MCCURDY, HAROLD GRIER, A.B., Duke.  
Dissertation: *Psychological Analysis of Literary Productions as a Revelation of Personality*.
- MCCURDY, MARY BURTON DERRICKSON, A.B., Goucher College; A.M., Syracuse University.  
Dissertation: *Mitochondria in Liver Cells of Fed and Starved Salamanders*.
- McNICOLL, ROBERT EDWARDS, A.B., University of Miami; A.M., Duke.  
Dissertation: *Peruvian-American Relations in the Era of the Civilist Party*.
- MICHEL, HARRY OSCAR, B.S., University of California.  
Dissertation: *A Study of Sulfhemoglobin*.
- MOORE, ROSS HENDERSON, B.S., M.S., Millsaps College; A.M., University of Chicago.  
Dissertation: *Social and Economic Conditions in Mississippi during Reconstruction*.
- MORTON, LOUIS, B.S., A.M., New York University.  
Dissertation: *Robert Carter of Virginia: A Study of a Tobacco Planter of the Eighteenth Century*.
- ROSE, JESSE LEE, A.B., College of Charleston; A.M., Duke.  
Dissertation: *The Durative and Aoristic Tenses in Thucydides*.
- SAVELY, HARVEY EPPERSON, JR., B.S., Mississippi State College.  
Dissertation: *Ecological Relations of Certain Animals in Dead Pine and Oak Tree Trunks*.
- \*SCHOOLLAND, JOHN BERNARD, A.B., University of Michigan; A.M., Columbia University.  
Dissertation: *An Experimental Investigation of Constitutionally Differentiated Cognitive Behavior of Chicks and Ducks*.
- STANBURY, WALTER ALBERT, JR., A.B., A.M., Duke.  
Dissertation: *The Language of Francis Quarles*.
- WILSON, JOHN WOODROW, B.S., Duke.  
Dissertation: *Some Physiological Properties of Reptilian Blood*.

### SUMMARY OF ENROLLMENT IN THE GRADUATE SCHOOL

Graduate students, Academic Year 1938-39.....	262
Graduate students, First Summer Term, 1938.....	1,074
Graduate students, Second Summer Term, 1938.....	463
Graduate students, Junaluska Summer School, 1938.....	7
Graduate Students, Marine Laboratories, 1938.....	13
<i>Total</i> .....	1,819
Deduct for duplications.....	408
<i>Total enrollment</i> .....	1,411

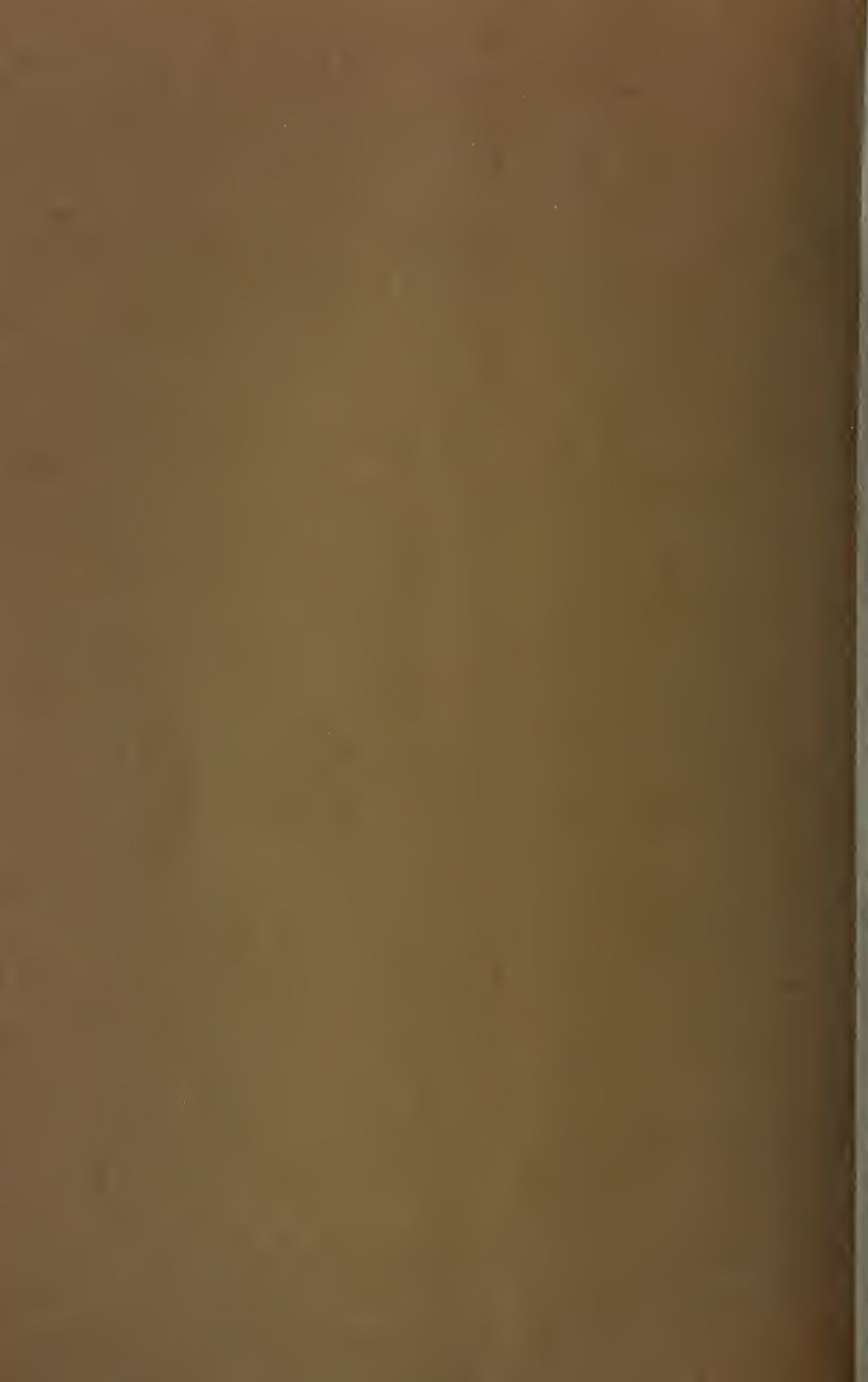
\* Degree conferred in absentia.











VOLUME 11

May, 1939

NUMBER 5-A

# BULLETIN OF DUKE UNIVERSITY

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*School of Religion*



1938-1939

ANNOUNCEMENTS FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA



## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF LAW, apply to *The Dean of the School of Law*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF MEDICINE, apply to *The Dean of the School of Medicine*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF NURSING, apply to *The Dean of the School of Nursing*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF RELIGION, apply to *The Registrar of the School of Religion*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

For BULLETIN OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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Published by Duke University monthly except in September and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY



SCHOOL OF RELIGION

1938-1939

ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA

1939



## CALENDAR

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### 1939

- Sept. 22. Friday, 4:00 P.M.—First regular Faculty meeting.  
Sept. 23. Saturday—Matriculation and registration of students.  
Sept. 25. Monday, 8:00 A.M.—Instruction begins.  
Sept. 28. Thursday—Formal opening exercises.  
Oct. 4. Wednesday—Last day for submitting subjects for B.D. theses.  
Oct. 12. Thursday—Fall retreat.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 11. Monday—Duke University Day.  
Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

### 1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.  
Jan. 17. Wednesday—Mid-year examinations begin.  
Jan. 31. Wednesday—Matriculation and registration for second semester.  
Feb. 1. Thursday—Second semester begins.  
March 23. Saturday, 1:00 P.M.—Spring vacation begins.  
April 1. Monday, 8:00 A.M.—Instruction is resumed.  
May 15. Wednesday—Last day for submitting B.D. theses.  
May 17. Friday—Final examinations begin.  
June 1. Saturday—Commencement opens; Senior Class Day; Meeting of Board of Trustees.  
June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.  
June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## GENERAL ADMINISTRATION

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FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., LL.D., Litt.D.  
*President of the University*

FLOWERS, ROBERT LEE, A.M., LL.D.  
*Vice-President in the Business Division, Secretary, and  
Treasurer of the University*

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division of the University*

BROWN, FRANK CLYDE, A.B., A.M., Ph.D.  
*Comptroller of the University*

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### COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF RELIGION

W. W. PEELE, T. M. GRANT, J. B. HURLEY, T. F. MARR

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## EDUCATIONAL ADMINISTRATION

RUSSELL, ELBERT, A.B., A.M., Ph.D.  
*Dean of the School of Religion*

GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion*



## INSTRUCTIONAL STAFF

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BRANSCOMB, BENNETT HARVIE, A.B., M.A. (Oxon), Ph.D.

*Professor of New Testament*

CANNON, JAMES, III, A.B., A.M., Th.B., Th.M., D.D.

*Ivey Professor of the History of Religion and Missions*

\*GARBER, PAUL NEFF, A.B., A.M., Ph.D.

*Professor of Church History*

HART, HORNE LL NORRIS, A.B., A.M., Ph.D.

*Professor of Social Ethics*

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D.

*Professor of Preaching and the Psychology of Religion*

MYERS, HIRAM EARL, A.B., S.T.B., S.T.M.

*Professor of Biblical Literature*

ORMOND, JESSE MARVIN, A.B., B.D.

*Professor of Practical Theology*

ROWE, GILBERT THEODORE, A.B., S.T.D., D.D., Litt.D.

*Professor of Christian Doctrine*

RUSSELL, ELBERT, A.B., A.M., Ph.D.

*Professor of Biblical Interpretation*

SMITH, HILRIE SHELTON, A.B., Ph.D., D.D.

*Professor of Christian Ethics and Religious Education*

SPENCE, HERSEY EVERETT, A.B., A.M., B.D., D.D.

*Professor of Religious Education*

CLARK, KENNETH WILLIS, A.B., B.D., Ph.D.

*Assistant Professor of New Testament*

PETRY, RAY C., A.B., A.M., Ph.D.

*Assistant Professor of Church History*

STINESPRING, WILLIAM FRANKLIN, B.A., M.A., Ph.D.

*Assistant Professor of Old Testament*

DUBS, HOMER HASENPFLUG, A.B., M.A., B.D., Ph.D.

*Acting Professor of Philosophy*

OUTLER, ALBERT COOK, A.B., B.D., Ph.D.

*Instructor in Historical Theology*

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ELLWOOD, CHARLES ABRAM, Ph.B., Ph.D., LL.D.

*Professor of Sociology*

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\* Absent on leave, first semester, 1939-40.

JENSEN, HOWARD EIKENBERRY, A.B., A.M., B.D., Ph.D.  
*Professor of Sociology*

LUNDHOLM, HELGE, Ph.D.  
*Professor of Psychology*

WIDGERY, ALBAN GREGORY, B.A., M.A.  
*Professor of Philosophy*

ADAMS, DONALD KEITH, A.B., M.A., Ph.D.  
*Associate Professor of Psychology*

CRISPELL, RAYMOND, A.B., M.D.  
*Associate Professor of Neuropsychiatry*

MORGAN, GEORGE ALLEN, JR., A.B., A.M., Ph.D.  
*Associate Professor of Philosophy*

THOMPSON, EDGAR TRISTRAM, A.B., A.M., Ph.D.  
*Assistant Professor of Sociology*

BARNES, JAMES FOSTER, A.B., A.M.  
*Instructor in Church Music*

\*CUNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (Oxon), A.M.  
*Instructor in Church Music*

HAINES, HOWARD N., B.S.  
*Instructor in Church Architecture*

### COMMITTEES OF THE FACULTY

*Admissions*—The Dean, the Registrar, and Professor Smith.

*Bulletin*—Professors Russell, Cannon, Garber, Spence, and Rowe.

*Extension*—Professors Hickman, Rowe, Myers, Ormond, and Spence.

*Library*—Professors Cannon and Smith and Assistant Professor Clark.

*Public Exercises*—Dean Russell and Professors Branscomb, Hickman, and Rowe, and Assistant Professor Stinespring.

*Registration and Advanced Standing*—The Registrar, the Dean, and Professor Cannon.

*Theses*—Professors Cannon, Garber, Hickman, Smith, and Rowe.

*Representatives on Joint Committee on Injaluska School of Religion*—President Few, Dean Russell, and Professor Garber.

\* Absent on leave, 1939-40.

# SCHOOL OF RELIGION IN DUKE UNIVERSITY

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## HISTORICAL STATEMENT

The present Duke University has been gradually developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made in increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College has experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a \$40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the indenture of trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name.

## SCHOOL OF RELIGION

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the School of Religion and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the School of Religion of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

Duke University retains the same close relationship which Trinity College always held to the Conferences in North Carolina of the Methodist Episcopal Church, South. This legal relationship has always been broadly interpreted: members of all Christian denominations, as well as Methodists, are made to feel welcome in the School of Religion. The basis on which the work is conducted is broadly catholic and not narrowly denominational.

The School of Religion is a member of the American Association of Theological Schools and was included in the list of accredited theological schools approved by the Association in June, 1938.

### **THE PURPOSE OF THE SCHOOL OF RELIGION**

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The School of Religion of Duke University purposes to offer training for all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the Church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who is placed before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the School of Religion is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

### **RELATION OF THE SCHOOL OF RELIGION TO DUKE UNIVERSITY**

As one of the co-ordinate schools of Duke University, the School of Religion is in closest touch with the other schools, particularly with Trinity College and with the Graduate School. Correspondence is invited from those who are interested in the possibility of securing degrees other than that of Bachelor of Divinity, which is granted upon recommendation of the Faculty of the School of Religion. Seniors in Trinity College are

admitted to certain courses in the School of Religion. Various privileges of Duke University are open to students of the School of Religion. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

### **REQUIREMENTS FOR ADMISSION**

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or some faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men.

### **PART-TIME SCHEDULES**

Students who are not giving full time to their studies in the School of Religion may carry only limited schedules of class work.

### **REQUIREMENTS FOR GRADUATION**

The requirements for the degree of Bachelor of Divinity are ninety semester hours, six semester hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each, and students are urged to plan to spend in their theological studies the full time thus designated. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the School of Religion, and has satisfactorily completed a minimum of twenty-four semester hours of work.

### **THESIS**

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field, and must be filed with the Dean of the School of Religion on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes shall be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reapproval of the old subject or the



approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except on the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports as to the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the Committee on Theses in approving thesis subjects. The student, the director, and the Committee on Theses shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the School of Religion, one of whom shall be the professor under whose direction the thesis has been written, and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Committee of Examination, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by May 1, and three permanently bound typewritten copies shall be presented for examination not later than May 15 of the year in which it is expected the degree will be conferred. Theses submitted after May 15 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

### PRE-SEMINARY CURRICULUM

The School of Religion in substantial agreement with the standards of the American Association of Theological Schools recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

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## GENERAL REQUIREMENTS

Ninety semester hours are required for graduation. Forty-two of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
Homiletics	6 s.h.
Practical Theology	6 s.h.
Religious Education	3 s.h.
History of Religion and Missions	3 s.h.
	<hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 42 s.h.

## MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take twelve semester hours in addition to the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the School of Religion. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament nine semester hours in the Department of Old Testament and nine semester hours in the Department of New Testament, exclusive of language.

12 s.h.

## FREE ELECTIVES

Thirty-six semester hours are designated as free electives. These are to be elected by the student, subject to the approval of the Faculty.

36 s.h.

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90 s.h.

## DISTRIBUTION OF COURSES BY YEARS

### JUNIOR YEAR

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.

The remaining twelve semester hours shall be chosen from the remaining required courses or their normal sequences in the Departments of Homiletics, Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.

12 s.h.

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30 s.h.

## MIDDLE YEAR

Christian Doctrine

6 s.h.

After completing all other required courses, the remainder of the work of this year is elective, but not more than twelve semester hours shall be taken in one department.

24 s.h.

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30 s.h.

## SENIOR YEAR

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective.

30 s.h.

## TABLE OF REQUIRED COURSES

## OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

## NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

## CHRISTIAN DOCTRINE

321. Introduction to Theology, *and either* 3 s.h.

322. The Content of Christian Doctrine, *or* 3 s.h.

324. Theology in Modern Christianity, *or* 3 s.h.

204. Christian Ethics, *or* 3 s.h.

245. Philosophical Foundations of Religious Belief I, *or* 3 s.h.

246. Philosophical Foundations of Religious Belief II 3 s.h.

## CHURCH HISTORY

233. Church History to the Reformation 3 s.h.

234. The History of the Evangelical Movement 3 s.h.

## HOMILETICS

SR341-342. Theory and Practice of Preaching 6 s.h.

## PRACTICAL THEOLOGY

[Six semester hours chosen from the following courses.]

351. Rural Church Administration (alternating with SR355, Public Worship and Ordinances of the Church), *or* 3 s.h.

SR386. Missionary Promotion, *or* 3 s.h.

234. Social Ethics 3 s.h.

## RELIGIOUS EDUCATION

261. Foundations of Religious Education, *or* 3 s.h.

262. Organization of Religious Education 3 s.h.

## HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.

## COURSES OF INSTRUCTION\*

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### OLD TESTAMENT

**201-202. Elementary Hebrew.**—The principles and structure of the Hebrew language with translation of selected Old Testament narratives. M.W.F. at 11:30. 6 s.h. ASSISTANT PROFESSOR STINESPRING

**203-204. Introduction to the Old Testament.**—The origin, literary forms, and contents of the books of the Old Testament in their geographical and historical setting. M.W.F. at 8:00. 6 s.h. PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING

**301. Old Testament Theology.**—The religious and ethical teachings of the books of the Old Testament in their historical development. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. 3 s.h. PROFESSOR RUSSELL

**302. The Exegesis of Selected Books of the Old Testament.**—A study of the Wisdom Literature with special emphasis on the Book of Job. Based on the English text. Prerequisite: Old Testament 203-204. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**303. Aramaic.**—A study of the Aramaic portions of the Old Testament, and selected passages from the Targums, Midrashes, and Talmuds. Hours to be arranged. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**305-306. Elementary Arabic.**—No prerequisite, but one year of Hebrew recommended as preparation. 6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]

**307-308. Advanced Hebrew.**—Samuel or Kings the first semester and Isaiah the second. M.W.F. at 2:00. 6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]

**309. History of the Ancient Near East.**—A survey of the early civilizations of Egypt, Palestine, Syria, and Mesopotamia in the light of Biblical archaeology. T.Th.S. at 11:30. 3 s.h. ASSISTANT PROFESSOR STINESPRING

**310. Old Testament Prophecy.**—The prophetic movement in Israel with special emphasis on the prophets of the Eighth Century B.C. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]

**401-402. Thesis Seminar.**—For students majoring in the Department of Old Testament. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

### NEW TESTAMENT

**SR211-212. Hellenistic Greek.**—A course for students who wish to begin the study of New Testament Greek. T.Th.S. at 8:00. 6 s.h., provided the student takes six semester hours in New Testament Greek the following year. ASSISTANT PROFESSOR CLARK

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\* On recommendation of the professor in charge of the major field courses offered in the Graduate School of Arts and Sciences, other than those approved for credit in the School of Religion, may be approved for credit in individual cases, provided no equivalent course is offered in the School of Religion; each case to be decided on its merits.

**213-214. The Beginnings of Christianity.**—A survey course dealing with the background, the beginnings, and the early history of Christianity. Special attention is given to the creation of the literature of the New Testament. M.W.F. at 9:10. 6 s.h. PROFESSOR BRANSCOMB

**217. The New Testament in Greek.**—Considerable portions of the Greek text of the New Testament will be read and the principles of Hellenistic Greek studied. Prerequisite: six semester hours' study of the Greek language. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

**218. Galatians and I Corinthians.**—A detailed study of two of Paul's major epistles. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

**219. Life of Paul.**—A study of Paul's life on the basis of Acts and the letters of Paul, emphasizing the permanent values in Paul's work and his contribution to the world. T.Th.S. at 11:30. 3 s.h. PROFESSOR MYERS

**220. I Peter and the Gospel of John.**—A detailed study of two of the non-Pauline writings of the New Testament. The course will be based on the Greek text. Prerequisite: New Testament 217 or its equivalent. T.Th.S. at 9:10. 3 s.h. ASSISTANT PROFESSOR CLARK

[Not offered in 1939-40]

**311. The Life and Teachings of Jesus.**—Prerequisite: New Testament 213-214. M.W.F. at 10:20. 3 s.h. PROFESSOR BRANSCOMB

**312. New Testament Theology.**—The religious teachings of the books of the New Testament. Prerequisite: New Testament 213-214. M.W.F. at 10:20. 3 s.h. PROFESSOR RUSSELL

**314. Exegesis of Selected Books of the New Testament.**—The books studied will be Romans, James, First John. The study will be based on the English text. Prerequisite: New Testament 213-214. T.Th.S. at 11:30. 3 s.h. ASSISTANT PROFESSOR CLARK

[Not offered in 1939-40]

**315. Hellenistic Religions at the Beginning of the Christian Era.**—Prerequisite: New Testament 213-214. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR CLARK

**316. Judaism at the Beginning of the Christian Era.**—A study of Judaism from the time of Ben Sirach to the writing of the Mishna. Prerequisite: New Testament 213-214. T.Th.S. at 10:20. 3 s.h. PROFESSOR BRANSCOMB

**318. Text of New Testament.**—A study of the materials for the reconstruction of the text, the principles of textual criticism, and the history of the text. Practical exercises in the use of manuscripts and facsimiles will be given. Prerequisite: New Testament 213-214 and a reading knowledge of Greek. T.Th.S. at 10:20. 3 s.h. ASSISTANT PROFESSOR CLARK

**411-412. Thesis Seminar.**—The materials and methods for the investigation of New Testament problems, with individual research done under the direction of the members of the Department. Admission by special permission. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) DEPARTMENTAL STAFF

## CHRISTIAN DOCTRINE

**221. Platonism and Christianity.**—An analysis of Plato's religious philosophy and a survey of its continuing influence in Neo-Platonic and Christian thought. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. DR. OUTLER



**222. Theology and Philosophy in the Nineteenth Century.**—A study of Protestant thought from Schleiermacher to Troeltsch, with special attention to the reciprocal relations between theology and metaphysics. Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. DR. OUTLER

**321. Introduction to Theology.**—An examination of types of theological method and an indication of some of the results obtained through a resort to observation and experience in theological investigation. M.W.F. at 3:00. 3 s.h. PROFESSOR ROWE

**322. The Content of Christian Doctrine.**—A comprehensive survey of the doctrines of Christianity as presented systematically in the works of some recent theologians. M.W.F. at 3:00. 3 s.h. PROFESSOR ROWE

**323. Theology in Ancient and Medieval Christianity.**—The history of Christian thought from the Apostolic Fathers to St. Thomas Aquinas with special attention to the ecumenical creeds. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. 3 s.h. DR. OUTLER

**324. Theology in Modern Christianity.**—The history of Christian thought from the beginning of the Reformation to the present time. Prerequisite: Christian Doctrine 321. M.W.F. at 11:30. DR. OUTLER

**325. Soteriology.**—A study of the Christian doctrine of salvation and a comparison of the various ways by which the saving power of God is understood to take effect in personal and social life. Prerequisite: Christian Doctrine 321-322. T.Th.S. at 11:30. 3 s.h. PROFESSOR ROWE

**326. Eschatology.**—A study of "the last things" in the light of the Christian hope for the individual and for society with special consideration of the Christian doctrine of immortality. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. 3 s.h. PROFESSOR ROWE

**327. Arminian Theology.**—A study of Arminianism in the religious thought of England and America with special reference to the system of doctrine contained in the theological writings and doctrinal standards of Methodism. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. 3 s.h. [Not offered in 1939-40] PROFESSOR ROWE

**328. Current Theology.**—A survey of the field of contemporary theology with special attention given to the most significant and influential movements of reconstruction and reaction in liberal Christianity. Prerequisite: Christian Doctrine 321. T.Th.S. at 11:30. 3 s.h. PROFESSOR ROWE  
[Not offered in 1939-40]

**421-422. Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Christian Doctrine. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR ROWE

**301. Old Testament Theology.**—Identical with Old Testament 301. T.Th.S. at 10:20. 3 s.h. PROFESSOR RUSSELL

**312. New Testament Theology.**—Identical with New Testament 312. M.W.F. at 10:20. 3 s.h. PROFESSOR RUSSELL

## CHURCH HISTORY

**233. Church History to the Reformation.**—A survey of the growth of the Christian Church from the Apostolic Age to the Reformation. M.W.F. at 10:20. 3 s.h. ASSISTANT PROFESSOR PETRY

**234. History of the Evangelical Movement.**—Beginning with the Lutheran Reformation, this course traces the rise, growth, influence, and history to 1800 of the Calvinistic, Anglican, Reformed, Quaker, Baptist, and Methodist movements. M.W.F. at 10:20. 3 s.h.  
PROFESSOR GARBER

**331. The Social Message of the Early and Medieval Church.**—A study of the social teachings of the Christian Church prior to the Protestant Reformation, stressing the contributions of Christianity to social progress. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h.  
ASSISTANT PROFESSOR PETRY

**332. The Medieval Church.**—Outstanding characteristics of the Medieval Church, emphasizing theory, polity, institutions, sacraments, and worship. Prerequisite: Church History 233-234. T.Th.S. at 8:00. 3 s.h.  
ASSISTANT PROFESSOR PETRY

**333. Protestantism and Catholicism in Europe since 1800.**—A study of the religious situation in Europe in modern times, emphasizing the papacy in the age of nationalism, relations of church and state, German theology of the nineteenth century, and the Oxford Movement. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
PROFESSOR GARBER

[Not offered in 1939-40]

**334. The Church in America: The National Period.**—Major emphasis is placed upon relations of church and state, steps toward Christian unity, the small sects, the Young People's Movement, Christian education, and modern theological issues. Prerequisite: Church History 233-234. T.Th.S. at 9:10. 3 s.h.  
PROFESSOR GARBER

**335. Modern Religious Leaders.**—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
PROFESSOR GARBER

[Not offered in 1939-40]

**336. Religious Leaders of the Early and Medieval Church.**—Among those to be studied are Justin Martyr, Origen, Cyprian, Jerome, Augustine, Benedict of Nursia, Athanasius, Gregory VII, Abelard, St. Thomas Aquinas, Innocent III, and John Wyclif. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
ASSISTANT PROFESSOR PETRY

[Not offered in 1939-40]

**338. Methodism.**—A study of the beginnings and growth of the Methodist societies in England, of early Methodism in America and of the development of the several branches of the Methodist Church in America. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
PROFESSOR GARBER

**339. Religion in the Southern States since the Civil War.**—A study of the religious life of the Southern people since 1865. Prerequisite: Church History 233-234. 3 s.h.  
PROFESSOR GARBER

[Not offered in 1939-40]

**432. A History of Christian Renunciation in the Middle Ages.**—A study of the renunciatory ideal and of spiritual practices with special reference to Benedictines, Franciscans, Lowland mystics, and leading seculars. Prerequisite: Church History 233-234. M.W.F. at 11:30. 3 s.h.  
ASSISTANT PROFESSOR PETRY

**437-438. Thesis Seminar.**—Principles and practice of research. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) T. at 2:00.  
DEPARTMENTAL STAFF

## HOMILETICS

**SR341-342. Theory and Practice of Preaching.**—Investigation of practical problems in preaching to determine causes of success and failure. Practice preaching. T.Th.S. at 9:10. 6 s.h. PROFESSORS HICKMAN, MYERS, AND ROWE

**346. Doctrinal Preaching.**—An inductive study of the doctrinal emphasis in preaching, with particular attention to abiding doctrinal truths in an age of changing intellectual and social perspectives. T.Th.S. at 8:00. 3 s.h.

PROFESSOR HICKMAN

**347. History of Preaching.**—A study of significant periods and their representative preachers, to determine their value for modern preaching. M.W.F. at 11:30. 3 s.h.

PROFESSOR MYERS

[Not offered in 1939-40]

**348. Materials of Preaching.**—A critical evaluation of selected portions of the Bible and of some non-Biblical materials for constructive modern preaching. M.W.F. at 11:30. 3 s.h.

PROFESSOR MYERS

[Not offered in 1939-40]

**343. Pastoral Psychology.**—Identical with Psychology of Religion 373. T.Th.S. at 8:00. 3 s.h.

PROFESSOR HICKMAN

**344. Psychology of Preaching.**—Identical with Psychology of Religion 374. T.Th.S. at 8:00. 3 s.h.

PROFESSOR HICKMAN

[Not offered in 1939-40]

## PRACTICAL THEOLOGY

**351. Rural Church Administration.**—This course will deal with the function of the rural church; the minister's personality as a factor in church administration; the minister's service in managing the church organization and supervising the program. T.Th.S. at 10:20. 3 s.h.

PROFESSOR ORMOND

**352. The Rural Church and Sociology.**—A study of the present-day rural conditions; the historical development of the church in rural society; an attempt to discover the obligation of the church to the rural social order. T.Th.S. at 10:20. 3 s.h.

PROFESSOR ORMOND

**SR355. Public Worship and Ordinances of the Church.**—The principles and practice of worship in the church; celebration of the Lord's Supper; conduct of funerals, baptisms, weddings, reception of members. T.Th.S. at 10:20. 3 s.h.

PROFESSOR ORMOND

[Not offered in 1939-40]

**SR356. The Church's Service to the Community.**—This course deals with the needs of and service to the rural community; personal and educational evangelism. T.Th.S. at 10:20. 3 s.h.

PROFESSOR ORMOND

[Not offered in 1939-40]

**SR358a. Church Music.**—A study of hymnology, song leading, and problems of the modern church choir. M.W. at 11:30. 2 s.h.

MR. BARNES

**SR358b. Church Architecture.**—A study of the best types of church architecture for attractiveness and effective service in open country and towns. F. at 11:30. 1 s.h.

MR. HAINES

**SR453-454. Practicum on Rural Church Work.**—(a) Developing ministerial efficiency by conserving the educational values of actual experiences of ministerial students in rural churches. (b) The basic elements in the minister's character and personality that are essential to successful leadership. Th. at 7:30 P.M. 2 s.h.

PROFESSOR ORMOND

\*220. Rural Sociology.—Identical with Sociology 220. M.W.F. at 8:00.  
3 s.h. ASSISTANT PROFESSOR THOMPSON

234. Social Ethics.—Identical with Sociology 234. M.W.F. at 9:10. 3 s.h.  
PROFESSOR HART

373. Pastoral Psychology.—Identical with Psychology of Religion 373.  
T.Th.S. at 8:00. 3 s.h. PROFESSOR HICKMAN

SR386. Missionary Promotion.—Identical with History of Religion and  
Missions SR386. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON

\*\*459. Introduction to Psychiatry.—Th. at 1:30. 1 s.h.  
ASSOCIATE PROFESSOR CRISPELL

### RELIGIOUS EDUCATION

261. Foundations of Religious Education.—A study of the fundamental  
conceptions underlying the theory of Christian education, including social,  
psychological, and theological aspects. T.Th.S. at 11:30. 3 s.h.  
PROFESSOR SMITH

262. Organization of Religious Education.—The development of a system  
of organization and administration based upon constructive educational theory,  
and embracing week-day as well as Sunday agencies of religious education.  
T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE

263. Curriculum of Religious Education.—Educational conceptions of the  
curriculum; values and uses of current curricula; principles and technics of  
curriculum construction. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE

267. Technic of Teaching Religion.—Objectives and principles of the  
teaching process, including a discussion of the major types of educational  
procedure. T.Th.S. at 8:00. 3 s.h. PROFESSOR SPENCE  
[Not offered in 1939-40]

SR265. Religious Drama.—A study of the uses and underlying principles  
of religious drama, followed by a critical examination of selected dramatic  
productions. M.W.F. at 9:10. 3 s.h. PROFESSOR SPENCE

SR268. Drama Construction and Production.—The course will deal with  
the use of drama in religious education with special reference to the church  
and church school. It is contemplated that there will be practice in teaching  
through dramatics; in actually creating dramatic programs of worship, and  
in the writing and producing of drama. M.W.F. at 9:10. 3 s.h.  
PROFESSOR SPENCE

266. Educational Aspects of Worship.—A study of worship in its bearing  
upon the educational function of the Christian religion. Students admitted  
on consultation. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]

362. Ethical Theory of Christian Education.—The implication of Chris-  
tian ethics for religious education in contemporary society. Prerequisite:  
Religious Education 261 or its equivalent. T.Th.S. at 11:30. 3 s.h.  
[Not offered in 1939-40] PROFESSOR SMITH

363-364. Religious Thought in the Rise of American Culture.—A survey  
of the main developments in American religious thought in relation to the  
growth of civilization and culture. Prerequisite: Religious Education 261 or  
its equivalent. M.W.F. at 9:10. 6 s.h. PROFESSOR SMITH

\* Course offered in the Graduate School of Arts and Sciences which is credited  
toward the degree of Bachelor of Divinity.

\*\* Course offered in the School of Medicine which is credited toward the degree of  
Bachelor of Divinity.



**365. Seminar in Character Education and the State.**—A study of the state as character educator, involving a critical examination of the ethical philosophy of the secular state, and of the modern theories and practices of character education. Prerequisite: Religious Education 261 or its equivalent. F. at 4:00. 2 s.h.  
PROFESSOR SMITH

**366. Seminar in Philosophy of Religious Education.**—A critical study of the basic concepts and theories underlying religious education. Prerequisite: Religious Education 261 or its equivalent. F. at 4:00. 2 s.h.  
PROFESSOR SMITH

**461-462. Thesis Seminar.**—A seminar in thesis guidance. For students majoring in the Department of Religious Education. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.)  
DEPARTMENTAL STAFF

### PSYCHOLOGY OF RELIGION

**275. Introduction to the Psychology of Religion.**—Study of the major factors of religious experience, together with conditions bearing upon its genesis and growth. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**276. Advanced Psychology of Religion.**—Psychological study of such problems as worship, prayer, and various types of belief. Some attention to special problems. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**371. The Genetic Psychology of Religion.**—Principles of genetic psychology as they relate to the growth of religious experience. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th. at 4:00-5:30. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**372. Mysticism in Religion.**—An analytical study and evaluation of mystical phases of Christianity. Prerequisite: Psychology of Religion 275 or its equivalent. T.Th. at 4:00-5:30. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**373. Pastoral Psychology.**—Study of basic psychological and psychiatric principles bearing upon cases necessarily dealt with in pastoral work. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN

**374. Psychology of Preaching.**—A psychological study of the preaching motive, the relation of the preacher to his congregation, and the relation of the preacher to society in general. T.Th.S. at 8:00. 3 s.h.  
PROFESSOR HICKMAN  
[Not offered in 1939-40]

**377-378. Seminar: Theories of Self.**—Bearing of psychological theories of self upon religious theory. For advanced students in philosophy, psychology, or psychology of religion. T. at 4:00. 4 s.h.  
PROFESSOR HICKMAN

**471-472. Thesis Guidance.**—(Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.)  
PROFESSOR HICKMAN

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**\*201. Social Psychology.**—Open to students in School of Religion on consent of instructor. T.Th. at 9:10. 2 s.h. ASSOCIATE PROFESSOR ADAMS

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\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

\*223. **Abnormal Psychology.**—Open to students in School of Religion on consent of instructor. T.Th.S. at 10:20. 3 s.h. PROFESSOR LUNDHOLM

\*219. **History of Psychology.**—Open to students in the School of Religion on consent of instructor. T.Th. at 9:10. 2 s.h. PROFESSOR ———  
[Not offered in 1939-40]

\*228. **Psychology of Belief.**—Open to students in School of Religion on consent of instructor. T.Th. at 10:20. 2 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1939-40]

### PHILOSOPHY OF RELIGION

\*203. **The Philosophy of Conduct.**—A critical study of the fundamental problems of ethics. T.Th.S. at 11:30. 3 s.h. ASSOCIATE PROFESSOR MORGAN

204. **Christian Ethics.**—An historical and systematic study of Christian conceptions of the moral life and its problems. T.Th.S. at 11:30. 3 s.h.  
PROFESSOR SMITH

\*209. **Philosophy of Religion I: Philosophical Introduction.**—Religion viewed with the standpoint of consideration of deity. T.Th. at 2:15-3:30. 3 s.h. PROFESSOR WIDGERY

\*210. **Philosophy of Religion II: Philosophical Introduction.**—Religion viewed from the standpoint of the nature of man, his origin and destiny. T.Th. at 2:15-3:30. 3 s.h. PROFESSOR WIDGERY

\*226. **The History of Ethics.**—Theories of morality from Socrates to the present time. 3 s.h. ASSOCIATE PROFESSOR MORGAN

245. **Philosophical Foundations of Religious Belief I.**—The nature of religion, its types and their characteristics as bearing upon contemporary Christianity. T.Th. at 2:15-3:30. 3 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1939-40]

246. **Philosophical Foundations of Religious Belief II.**—The problems of knowledge and value; the values of religion; the ideal religion; an attempt to formulate a tenable theistic philosophy. T.Th. at 2:15-3:30. 3 s.h. ACTING PROFESSOR DUBS  
[Not offered in 1939-40]

293. **The Christian Religion and Modern Thought.**—A consideration of certain conspicuous features in the thought of our times as they bear upon the Christian faith and the problems of the religious man. W.F. at 2:00-3:15. 3 s.h. ACTING PROFESSOR DUBS

294. **The Christian Religion and Values.**—The problem of the meaning of human life as discussed in modern theories of values. The Christian conception of values and their relative emphases as contrasted with some contemporary opposing views. W.F. at 2:00-3:15. 3 s.h. ACTING PROFESSOR DUBS

368. **Seminar.**—Bushnell, Channing, Emerson. Hours to be arranged. 2 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]

331. **The Social Message of the Early and Medieval Church.**—Identical with Church History 331. T.Th.S. at 8:00. 3 s.h. ASSISTANT PROFESSOR PETRY

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\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.



**362. Ethical Theory of Religious Education.**—Identical with Religious Education 362. T.Th.S. at 11:30. 3 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]

**363-364. Religious Thought in the Rise of American Culture.**—Identical with Religious Education 363-364. M.W.F. at 9:10. 6 s.h. PROFESSOR SMITH

### SOCIOLOGY

At least five semester hours of undergraduate sociology are prerequisite to all courses of the Department, except SR202 and 234. Sociology SR202 is designed especially for students whose undergraduate training in sociology has been inadequate. Such students who wish to pursue further work in the Department are advised to enroll in course SR202 as an elective as soon as possible after matriculation in the School of Religion.

**SR202. Sociology and Religion.**—The bearing of sociology upon religious problems and religious work. M.W.F. at 2:00. 3 s.h. PROFESSOR JENSEN  
[Not offered in 1939-40]

**\*205. Social Pathology.**—A study of the causes, extent, significance, and constructive treatment of the principal forms of pathology in modern society: poverty, physical defectiveness, malnutrition, mental deficiency, mental disease, undirected leisure activities, and unstandardized commercial recreation, alcoholism, prostitution, vagrancy, and delinquency. T.Th.S. at 8:00. 3 s.h.

PROFESSOR JENSEN

**\*206. Criminology.**—A study of the original tendencies of man and the problem of socializing these tendencies; the relations of physical and mental defectiveness and untoward influences in the home and neighborhood to crime; the development of criminological theory and procedure, emphasizing penal and reform methods, and especially modern methods of social treatment and prevention of crime. T.Th.S. at 8:00. 3 s.h. PROFESSOR JENSEN

**\*212. Child Welfare.**—A study of heredity and environment as factors in personality development: infant conservation; welfare responsibilities of the school, emphasizing the physical and mental well-being of the child, play, compulsory and industrial education; child labor, diagnosis and treatment of delinquency; care of the dependent and neglected child; child-caring agencies, public and private; and a community program of child welfare. 3 s.h.

PROFESSOR JENSEN

**\*219. Urban Sociology.**—This course studies the function of the city in the larger community which it nucleates both as market and as industrial center. More detailed attention, however, is given to the inner life and problems of the city. M.W.F. at 8:00. 3 s.h. ASSISTANT PROFESSOR THOMPSON

**\*220. Rural Sociology.**—A study of the societies developed by people who settle the land and exploit it for a livelihood. The institutions peculiarly rural are the family farm, the peasant village, the ranch, and the plantation. In this course special attention is given to the plantation and the rural problems of the South. M.W.F. at 8:00. 3 s.h.

ASSISTANT PROFESSOR THOMPSON

**231. General Anthropology.**—A study of the evolution of man and of human culture. The prehistoric human types; modern races; the evolution of tools, technology, family life, political institutions, art and language. M.W.F. at 10:20. 3 s.h.

PROFESSOR HART

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

**232. Cultural Anthropology.**—A study of the processes of cultural change. The emergence of magic, religion, morals and science; invention and diffusion; the dynamics of social change; the role and methods of the social innovator. M.W.F. at 10:20. 3 s.h. PROFESSOR HART

**233. The World Crisis in the Light of Social Anthropology.**—Present world issues in the light of the trends of human culture and of the dynamic processes through which men may take part in determining the future of civilization. M.W.F. at 9:10. 3 s.h. PROFESSOR HART

**234. Social Ethics.**—An attempt to develop answers to such questions as: How can potential leaders discover and acquire the skills required for rendering their fullest service to their fellow men—particularly capacities for creative cooperation and insight? On what intellectually and scientifically sound basis can one formulate the fundamental policies of one's life? On what ultimate criteria are social policies to be based? M.W.F. 9:10. 3 s.h. PROFESSOR HART

**\*242. Marriage and the Family.**—A survey of the problems connected with the institutions of marriage and the family in our civilization. M. at 3:20-5:10. 2 s.h. PROFESSOR GROVES (U. N. C.)

**317. Seminar in Anthropology.**—A seminar for advanced students who wish to pursue individual studies in racial or cultural anthropology. Only students who have satisfactorily completed courses 231 and 232 (or their equivalents) will be admitted. M.W. at 3:45-5:00. 3 s.h. PROFESSOR HART

**318. Religion and the World Crisis.**—An inquiry into the bearings of religion upon past social evolution and upon the possible future development of civilization. M.W. at 3:45-5:00. 3 s.h. PROFESSOR HART

**\*319. Principles of Sociology.**—A critical study of sociological theory. The sociological theories of recent writers will be critically examined with a view to laying the foundation for a constructive theory of the social life in modern biology and psychology. T.Th.S. at 11:30. 3 s.h. PROFESSOR ELLWOOD

**\*320. History of Social Philosophy.**—Lectures on the development of social thought from Aristotle to the present; the social philosophies of Plato, Aristotle, St. Augustine, Thomas Aquinas, Machiavelli, Bodin, Hobbes, Locke, Vico, Montesquieu, Rousseau, Condorcet, and the sociological systems of Comte, Spencer, Shaeffle, Lilienfeldt, Gumplowicz, Ratzenhofer, and Ward, will, among others, be considered. T.Th.S. at 10:30. 3 s.h. PROFESSOR JENSEN

**421-422. Thesis Seminar.**—A seminar in thesis guidance for students majoring in Sociology. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR HART

## HISTORY OF RELIGION AND MISSIONS

**281. Living Religions of the World.**—A survey of the religious systems of India, China, and Japan, followed by a study of Judaism, Mohammedanism and Christianity, the object being to trace the historical development of each religion. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON

**283. Expansion of Christianity.**—The spread of Christianity as interpreted in the light of political, social, economic, and other factors. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

[Not offered in 1939-40]

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

**284. Comparative Religion.**—The ideas of God, sin, salvation, the future life, and ethics in the religions of the world. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

**285. The Religions of the Far East.**—A study of the religious systems of China, Korea, and Japan. T.Th.S. at 11:30. 3 s.h. ACTING PROFESSOR DUBS

**286. The Religions of India.**—A study of present-day religious movements in India, with special reference to Hinduism. T.Th.S. at 9:10. 3 s.h. [Not offered in 1939-40] PROFESSOR CANNON

**287. Mohammedanism.**—The life of Mohammed and the religion of Islam, special attention being given to the Koran and its teachings. The aim is to interpret Mohammedanism as a force today. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. [Not offered in 1939-40] PROFESSOR CANNON

**289. Buddhism.**—India at the rise of Buddhism. Life of the Buddha and the teachings of early Buddhism. Development into the Hinayana and Mahayana schools, its spread and present condition in southern and eastern Asia. Prerequisite: 281. M.W.F. at 9:10. 3 s.h. PROFESSOR CANNON

**SR386. Missionary Promotion.**—The promotion of the missionary enterprise at the home base and abroad. Prerequisite: 281. T.Th.S. at 10:20. 3 s.h. PROFESSOR CANNON

**481-482. Thesis Seminar.**—Problems of research in History of Religion and Missions. Open to advanced students on approval of the instructor. Prerequisite: six semester hours in the department. Hours to be arranged. (Upon the satisfactory completion of the thesis the student receives six semester hours' credit for the thesis.) PROFESSOR CANNON

### COURSES ON THE MIDDLE AND FAR EAST

In addition to the courses offered in the Department of History of Religion and Missions of the School of Religion, attention is directed to the following courses in various departments of Duke University dealing with Middle and Far Eastern civilizations.

**History of the Foreign Relations of the United States.**—6 s.h. History 215-216. PROFESSOR CLYDE

**History of Modern Japan.**—A survey of institutional development, political, economic, and social since 1850. 3 s.h. History 241. PROFESSOR CLYDE

**History of Modern China.**—A survey of institutional development, political, economic, and social since 1840. 3 s.h. History 242. PROFESSOR CLYDE

**Political Institutions of the Far East.**—A study of the governmental systems of Japan, Korea and China from the earliest times to the present. 3 s.h. Political Science 211. DR. LINEBARGER

**International Politics of the Far East.**—A study of changing power relationships in the Orient since the arrival of the Europeans. 3 s.h. Political Science 212. DR. LINEBARGER

**Chinese Philosophy.**—3 s.h. Philosophy 236. ACTING PROFESSOR DUBS

**Indian Philosophy.**—3 s.h. Philosophy 238. PROFESSOR WIDGERY  
[Not offered in 1939-40]

## GENERAL INFORMATION

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### FEES

Tuition is remitted to students matriculated in the School of Religion, for which they are expected to render from time to time service which shall not interfere with their work in the School of Religion.

Each student is assessed per semester as follows:

Matriculation Fee .....	\$25.00
Library Fee .....	5.00
Athletic Fee .....	5.00
Publication Fee (optional) .....	2.50
Hospital Fee .....	5.00
Damage Fee .....	1.00

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of \$3.00 and a Diploma Fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

### LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00

### ROOMS

All rooms in the dormitories are provided with heat, water, and electric light. Each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is canceled, and the University is free to rent the room to other students, unless a deposit of \$25 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms can be secured from the Registrar of the School of Religion.

### BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. Board may be secured at the Union for an amount not to exceed \$25 per month. The Union

is the logical center of student activities, and all male students are advised to board in its supervised halls.

### STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Registrar of the School of Religion. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

### THE LIBRARY

The School of Religion has its own library, conveniently housed in the School of Religion Building. The Library, which contains materials dealing with the subject of religion, already numbers nearly thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth centuries containing the entire text of the New Testament.

Besides this special library, students of the School of Religion have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the School of Religion Building.

### FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The School of Religion of Duke University is one of the supporting members of the American Schools of Oriental Research. This grants to students in the School of Religion the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They are also able to compete for the financial aids that are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

### RELIGIOUS LIFE

The students of the School of Religion are expected to attend the regular University Chapel services which are held on Tuesday, Wednesday, and Friday of each week. Special chapel services for the School of Religion are held each Monday and Thursday.

In this, as in other features of the University life, the students of the School of Religion are urged to identify themselves with the life of the whole student group.



**DATE OF REGISTRATION**

Class work in the School of Religion for the academic session of 1939-40 will begin on Monday, September 25, 1939. The registration of students in the School of Religion will be held on Saturday, September 23, 1939.

**ADDITIONAL INFORMATION**

Requests for information not contained in this bulletin should be addressed to the Registrar of the School of Religion, Duke University, Durham, North Carolina.



# JUNALUSKA SCHOOL OF RELIGION

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## ANNOUNCEMENT

The twelfth session of the Junaluska School of Religion will be held at Lake Junaluska, North Carolina, from June 9 to July 21, 1939, in connection with the Junaluska Summer School, Inc. It will be conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South.

The purpose is to conduct a summer school of religion to meet the growing demand for advanced study in the Bible, theology, religious education, missions, and allied subjects.

There will be two classes of students: those who are graduates of high schools and who may have had one or more years in college, and those who are graduates of colleges. The School is open to men and women. The credits secured for work done will be Duke University credits, and will count toward the A.B. and B.D. degrees.

The School is designed for pastors, church workers, missionaries, and students who desire to fit themselves better for their work or to add credits looking toward the securing of university degrees.

## INSTRUCTORS

ELMER TALMAGE CLARK, A.B., M.A., B.D., S.T.D., LL.D.

*Assistant Secretary, Board of Missions*

METHODIST EPISCOPAL CHURCH, SOUTH

KENNETH WILLIS CLARK, A.B., B.D., Ph.D.

*Assistant Professor of New Testament*

DUKE UNIVERSITY

MASON CRUM, A.B., Ph.D.

*Assistant Professor of Biblical Literature*

DUKE UNIVERSITY

PAUL NEFF GARBER, A.B., A.M., Ph.D.

*Professor of Church History and Director of the Junaluska  
School of Religion*

DUKE UNIVERSITY

FRANKLIN SIMPSON HICKMAN, A.B., A.M., S.T.B., Ph.D.

*Professor of Preaching and the Psychology of Preaching*

DUKE UNIVERSITY

RAY C. PETRY, A.B., A.M., Ph.D.

*Assistant Professor of Church History*

DUKE UNIVERSITY

## COURSES

Courses will be offered meeting five times a week for eighty-minute periods. Each course, satisfactorily completed, will receive a credit of three semester hours in Duke University. Two such courses may be taken by each student. The courses offered are divided into two groups. The first group consists of courses for college undergraduates who are graduates of high schools and who desire credits looking toward the A.B. degree. The second group consists of courses for college graduates who desire credits looking toward the B.D. degree. These courses may also be taken by college undergraduates who have completed the Junior year and who are ranked as incoming Seniors in college.

## GROUP I

## FOR COLLEGE UNDERGRADUATES

**S51. The History of the Hebrew People.**—A study of the Hebrew people that gives attention to their political history, their religious and social institutions, their literary development, with special reference to their contributions to civilization. *Period D.* MR. PETRY

**S52. New Testament Literature.**—A study of the literature of the New Testament, its historical background, and its religious value. *Period B.* MR. CRUM

**S131. American Christianity.**—The aim of this course is to trace the growth of the different branches of the Christian Church in the United States, Canada, and Hispanic America. *Period A.* MR. GARBER

**S170. Religion and the Modern Home.**—A study of the American home in its contemporary social and religious aspects. *Period A.* MR. CRUM

**S182. Founders and Literatures of Great Religions.**—Biographical and historical studies in the lives and times of Laotze, Confucius, Mahavira, Buddha, Nanak, Zoroaster, Mohammed, Jesus, and Paul, together with readings in the sacred writings of the world's religions. *Period B.* MR. E. T. CLARK

## GROUP II

## FOR COLLEGE GRADUATES AND FOR COLLEGE SENIORS

**S210. The Religion of Jesus.**—A study of Jesus' personal religion as evidenced in the Gospels and other contemporary sources. The objective is twofold—to relate his beliefs and practices to his own environment and to observe the validity of underlying principles. *Period A.* MR. K. W. CLARK

**S231. The Social Message of the Christian Church.**—A study of the social teachings of the Christian Church, stressing the contributions of Christianity to social progress. *Period B.* MR. PETRY

**S235. Modern Religious Leaders.**—A study of outstanding individuals who have influenced the thought and program of the modern church. The life, work, and contributions of about twenty representative Christian leaders. *Period B.* MR. GARBER

**S273. Pastoral Psychology.**—Study of basic psychological and psychiatric principles bearing upon cases necessarily dealt with in pastoral work. *Period D.* MR. HICKMAN

**S281. Missions in the Modern World.**—A survey of present religious conditions and the status of missionary work in the important mission fields; the great missionary agencies, their foundation and growth; social progress in home and foreign fields. *Period A.* MR. E. T. CLARK

#### ADDITIONAL INFORMATION

A registration fee of \$20.00 and a library and recreation fee of \$2.00 are due at time of registration.

Students are of course responsible for their own arrangements for board and room. Those desiring to engage room and board in the Board of Christian Education lodges should write W. E. Hogan, 810 Broadway, Nashville, Tennessee. Those desiring to stay in the Mission Inn should correspond with J. F. Rawls, Doctors' Building, Nashville, Tennessee. Those desiring to room elsewhere should write to Business Manager, Southern Assembly, Lake Junaluska, North Carolina.

All sessions of the School will be held in the Mission Inn at Lake Junaluska.

Academic matters will be in charge of the Faculty of the School of Religion, Elbert Russell, Dean.

Those desiring further information concerning courses and conditions of work should address J. Q. Schisler, Board of Christian Education, 810 Broadway, Nashville, Tennessee, or Paul N. Garber, Registrar, School of Religion, Duke University, Durham, North Carolina.

## ROLL OF STUDENTS, SCHOOL OF RELIGION

### JUNIOR CLASS

Arthur, Charles Ralph B.S., University of Richmond, 1938.	Richmond, Va.
Blackburn, Linwood Earl A.B., Duke, 1938.	Fayetteville, N. C.
Boddie, Wyatt David A.B., Centenary College, 1937.	Hodge, La.
Boone, Sidney Grant A.B., Duke, 1934.	Durham, N. C.
Brabham, Angus McKay, Jr. A.B., University of South Carolina, 1937.	Bamberg, S. C.
Branch, Douglas McKinley A.B., Wake Forest College, 1937.	Youngsville, N. C.
Bridewell, Joseph Albert A.B., Millsaps College, 1938.	Columbia, Miss.
Conley, George Frederick A.B., Wofford College, 1938.	Marion, N. C.
Cooke, Jack A.B., Centenary College, 1938.	Minden, La.
Crumpton, Sidney Randolph A.B., Wofford College, 1932.	Sumter, S. C.
Davis, Willie Dixon A.B., University of South Carolina, 1939.	Columbia, S. C.
Dawson, Dana, Jr. A.B., Centenary College, 1938.	Shreveport, La.
Duncan, Floyd Alexander A.B., Wofford College, 1938.	Lincolnton, N. C.
Everett, Thomas D., Jr. A.B., Kentucky Wesleyan College, 1938.	Fairview, Ky.
Falls, Robert Watson A.B., Davidson College, 1933.	Fallston, N. C.
Felder, Charles Gabriel B.S., Millsaps College, 1935.	Magnolia, Miss.
Ferguson, Edward Benjamin A.B., University of North Carolina, 1937.	Greenville, N. C.
Galloway, Benedict Atkins A.B., Louisiana State University, 1938.	Raleigh, N. C.
Garner, John Utah A.B., Elon College, 1937.	Greensboro, N. C.
Glenn, Henry Clarence A.B., Duke, 1938.	Eufaula, Ala.
Gray, Alan DeLeon A.B., Birmingham-Southern College, 1938.	Brighton, Ala.
Harrell, Haywood Linwood A.B., Duke, 1938.	Rich Square, N. C.
Heffner, William Frank A.B., Wofford College, 1938.	Maiden, N. C.

Hendrix, Thomas Christian A.B., DePauw University, 1938.	Camargo, Ill.
Inge, John Wesley A.B., Lynchburg College, 1938.	Forest, Va.
Keeler, Edison Ford A.B., Florida Southern College, 1938.	Tampa, Fla.
McGalliard, James Lafayette A.B., Elon College, 1938.	Morganton, N. C.
Madren, Silas Ernest A.B., Elon College, 1929.	Henderson, N. C.
Miller, Irving Roscoe A.B., Catawba College, 1938.	Wilmington, N. C.
Moody, Clarence LeGrand A.B., Elon College, 1938.	Dillon, S. C.
Neese, James Everette A.B., Elon College, 1936.	Henderson, N. C.
Nesbitt, Marion Wilson A.B., Lenoir-Rhyne College, 1938.	Gastonia, N. C.
Parker, Carl Lafayette A.B., Wofford College, 1938.	Ridgeland, S. C.
Pegg, Jabez Paul A.B., University of North Carolina, 1926.	Henderson, N. C.
Prentis, Edward Walker A.B., Evansville College, 1938.	Owensboro, Ky.
Richey, Erika Marx A.B., Salem College, 1936.	Durham, N. C.
Riley, Philip Marshall B.S., Southern Methodist University, 1936.	Fort Worth, Texas
Robertson, Minns Sledge A.B., Louisiana State University, 1936.	Raleigh, N. C.
Rustin, Lee D. A.B., Arizona State Teachers College, 1938.	Pacific Palisades, Calif.
*Stamey, Robert Henry A.B., Duke, 1939.	Lawndale, N. C.
Thompson, Walter Rowe A.B., Duke, 1938.	Midland, N. C.
Waggoner, Brooks Milton A.B., University of Arkansas, 1938.	Rogers, Arkansas
Wilson, Earl Way A.B., Duke, 1938.	Durham, N. C.

## MIDDLE CLASS

Andes, William Jacob A.B., Elon College, 1935.	Harrisonburg, Va.
Andrews, William Ed A.B., Wofford College, 1937.	Lake Toxaway, N. C.
Arbaugh, Robert Newton A.B., Hendrix College, 1937.	Paragould, Ark.
Baker, Homer Ortho A.B., Wake Forest College, 1936.	Wake Forest, N. C.
Barrs, William Kenneth A.B., Duke, 1937.	South Miami, Fla.

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\* The degree of Bachelor of Arts will be conferred in June, 1939.

Biggers, Sherrill Bost B.Ph., Emory, 1937.	Concord, N. C.
Brady, William Herman A.B., Duke, 1937.	Highfalls, N. C.
Brown, Raymond Odell A.B., High Point College, 1937.	High Point, N. C.
Bustle, Wade Robert A.B., Davidson College, 1937.	Statesville, N. C.
Coley, Herman Theophilus A.B., Wofford College, 1936.	Hillsboro, N. C.
Crutchfield, Finis Alonzo A.B., Southern Methodist, 1937.	Vernon, Texas
Dodge, William Wesley A.B., American, 1937.	McLean, Va.
Evans, Joseph Claude A.B., Wofford College, 1937.	Anderson, S. C.
Floyd, John Lewis A.B., Duke, 1938.	Gasburg, Va.
Foley, Lemley Peter A.B., Berea College, 1937.	Stuart, Va.
Freeman, Ralph Lexie B.S., Tennessee Polytechnic Institute, 1937.	Cumberland Furnace, Tenn.
Garrison, Robert Edmund A.B., Randolph-Macon College, 1937.	Dillwyn, Va.
Hickman, Victor Ralph A.B., Wofford College, 1935.	Springfield, S. C.
Holder, Ray A.B., University of Mississippi, 1935; A.M., University of Mississippi, 1936.	Lucedale, Miss.
Hutchins, Walter Wilbur A.B., High Point College, 1935.	Apex, N. C.
Kelley, Marvin Hess A.B., Hendrix College, 1937.	Holly Grove, Ark.
Kiker, Seaborn Martin A.B., Southern Methodist, 1937.	Greenville, Texas
McLeod, Walter Grey A.B., Birmingham-Southern College, 1937.	Jackson, Ala.
Milstead, Harold Ashton A.B., St. John's College, 1937.	Chicamuxen, Md.
Nicholson, Ralph Herman A.B., Lenoir-Rhyne College, 1937.	Statesville, N. C.
Ousley, Carl Lee B.S., Wake Forest College, 1935.	Wendell, N. C.
Pittard, Jessie Leo A.B., High Point College, 1936.	Roanoke Rapids, N. C.
Queen, Virgil Erwin A.B., Catawba College, 1937.	Morganton, N. C.
Ratliff, Henry Marvin A.B., University of Texas, 1937.	Austin, Texas
Reichard, James Charles A.B., Davidson College, 1936.	Bynum, N. C.
Richardson, Henry Powell A.B., Emory and Henry College, 1937.	Narrows, Va.
Simpson, Harold Ross A.B., Catawba College, 1937.	Altoona, Pa.



Spell, James Everett  
A.B., Wofford College, 1934.  
Stevens, Wyatt Millard  
A.B., Elon College, 1936.  
Taylor, Key Wesley  
B.R.E., Gordon College, 1936.

Smoaks, S. C.  
Burlington, N. C.  
Compton, Calif.

## SENIOR CLASS

Bloodworth, Marcus Herring  
A.B., Randolph-Macon College, 1936.  
Bumgarner, George William  
A.B., Scarritt College, 1936; A.M., Scarritt College, 1938.  
Collins, Claude Ray  
A.B., Emory and Henry College, 1936.  
DuBose, Clarence Franklin, Jr.  
A.B., Wofford College, 1931.  
Ellzey, William Clark  
A.B., Southeast Missouri State Teachers College, 1936.  
Grice, Phillip Harold  
A.B., Mississippi State Teachers College, 1934.  
Hamilton, John Reynolds  
A.B., Catawba College, 1936.  
Heckard, Cecil Linwood  
A.B., Wofford College, 1936.  
Higgins, James Silvester  
A.B., High Point College, 1937.  
Hubbard, Charles Spence  
A.B., University of North Carolina, 1936.  
Huneycutt, Wiley Jackson  
B.S., Davidson College, 1932.  
Jarvis, James Clair  
A.B., Morris-Harvey College, 1936.  
Jones, Joseph Simeon  
A.B., Elon College, 1932.  
Jones, Theodore Edward  
A.B., Wofford College, 1935.  
Lane, Daniel  
A.B., Duke, 1913.  
Lindsay, Julian Astor  
B.S., Virginia Polytechnic Institute, 1935.  
McCulley, Robert William  
A.B., Lenoir-Rhyne College, 1936.  
Mallory, Rupert Talmage  
A.B., Morris-Harvey College, 1936.  
Martin, Robert Vance  
A.B., Wofford College, 1936.  
Morton, Hilton Osro  
A.B., Redlands College, 1935.  
Myers, Horwood Prettyman, Jr.  
A.B., Randolph-Macon College, 1935.  
O'Neal, Ernest Eugene  
B.S., University of Mississippi, 1935.  
Overton, James Hardy, Jr.  
A.B., University of North Carolina, 1934.

Norfolk, Va.  
Wilkesboro, N. C.  
Christiansburg, Va.  
Irmo, S. C.  
Perryton, Texas  
Rowling Fork, Miss.  
Salisbury, N. C.  
Albemarle, N. C.  
Guilford College, N. C.  
Sanford, N. C.  
West Jefferson, N. C.  
Cedar Grove, W. Va.  
Mebane, N. C.  
Marion, S. C.  
Durham, N. C.  
Washington, N. C.  
Lenoir, N. C.  
Spring Hill, W. Va.  
Gastonia, N. C.  
Tuohomme, Calif.  
Danville, Va.  
Charlottesville, Va.  
Coinjock, N. C.

Page, Jack Ward A.B., Duke, 1936.	Rowland, N. C.
Reese, David Whitehead, Jr. A.B., Wofford College, 1936.	Greer, S. C.
Richey, McMurry Smith A.B., Duke, 1936.	San Antonio, Texas
Rooks, John James A.B., Birmingham-Southern College, 1936.	Gainesville, Fla.
Schreyer, George Maurice A.B., Wofford College, 1936.	Fletcher, N. C.
Shackford, Joseph Temple A.B., Duke, 1934.	Rock Hill, S. C.
Shives, Marshall Bell A.B., Lenoir-Rhyne College, 1935.	Lincolnton, N. C.
Smith, Aubert Marlyn A.B., High Point College, 1935.	High Point, N. C.
Soper, Elgar Clyde A.B., Duke, 1936.	Olney, Md.
Stephenson, Marion Osborne A.B., Duke, 1932.	Durham, N. C.
Tate, Robert Spence, Jr. A.B., Southern Methodist, 1936.	San Antonio, Texas
Taylor, Voigt Otway A.B., Newberry College, 1929.	Southern Pines, N. C.
Vick, Thomas Marvin A.B., Southern Methodist, 1936.	Longhurst, N. C.
Wilkerson, Milton Chick A.B., Hampden-Sydney College, 1933.	Mattoax, Va.
Williams, Melvin John A.B., Duke, 1936.	Durham, N. C.
Wood, Hoyt Hampton A.B., High Point College, 1936.	Denton, N. C.

## SPECIAL STUDENT

Councilman, Robert Lacy A.B., Wake Forest College, 1930; Th.M., Southern Baptist Theological Seminary, 1933.	Burlington, N. C.
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## JUNALUSKA SCHOOL OF RELIGION

Autry, John Duncan Asbury	Roseboro, N. C.
Beadle, Merritt Stephen	Lafayette, La.
Beadle, Winans Fletcher	Highlands, N. C.
Bright, Edna Perry	Waynesville, N. C.
Caldwell, Elizabeth Haynes	Marion, N. C.
Carlen, Margaret Arlen	Cooksville, Tenn.
Clark, Major Hayes	Dothan, Ala.
Corbitt, Charles Anson	Lower Peach Tree, Ala.
Hager, William Webb	Salisbury, N. C.
Huneycutt, Wiley Jackson	West Jefferson, N. C.
Jenkins, Jane Arlene	Lowell, N. C.

Kennedy, Rhoda Lee  
Nelson, Ellen Lucille  
O'Neal, Ernest Eugene  
Sentelle, Mary Pauline  
Stamey, Robert Henry  
Stillwell, Edgar Herman  
Stone, George Henry  
Taylor, Voigt Otway  
Walton, Doris  
Worley, Maud Anne

Nashville, Tenn.  
Russellville, Ark.  
Saucier, Miss.  
Waynesville, N. C.  
Lawndale, N. C.  
Cullowhee, N. C.  
Worcester, Mass. ,  
Southern Pines, N. C.  
Danville, Va.  
Canton, N. C.









VOLUME 11

June, 1939

NUMBER 6

# BULLETIN OF DUKE UNIVERSITY

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*Catalogue Number*



1938-1939

ANNOUNCEMENTS FOR 1939-1940

PUBLISHED BY THE UNIVERSITY  
DURHAM, NORTH CAROLINA

## ANNUAL CATALOGUES AND BULLETINS

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For GENERAL BULLETIN of Duke University, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF UNDERGRADUATE INSTRUCTION, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES, apply to *The Dean of the Graduate School*, Duke University, Durham, N. C.

For BULLETIN OF THE SCHOOL OF FORESTRY, apply to *The Dean of the School of Forestry*, Duke University, Durham, N. C.

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For BULLETIN OF ENGINEERING, apply to *The Secretary*, Duke University, Durham, N. C.

For BULLETIN OF THE SUMMER SCHOOL, apply to *The Director of the Summer School*, Duke University, Durham, N. C.

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Published by Duke University monthly except in September and December. Entered as second-class matter March 25, 1929, at the Post Office of Durham, North Carolina, under the Act of August 24, 1912.

BULLETIN  
OF  
DUKE UNIVERSITY



CATALOGUE NUMBER

1938-1939

ANNOUNCEMENTS FOR 1939-1940

DURHAM, NORTH CAROLINA

1939



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## UNIVERSITY CALENDAR

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1939

- June 12 Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 12 Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4 Tuesday, Independence Day: a holiday.
- July 21-22 Friday, Saturday—Final examinations for Summer School, first term.
- July 24 Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 24 Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 1-2 Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 14 Thursday, 9:00 A.M.—Dormitories open to Freshmen.
- Sept. 14 Thursday, 8:00 P.M.—Assembly for all entering Freshmen; Freshmen Orientation Program begins.
- Sept. 19 Tuesday—Freshman instruction begins.
- Sept. 19 Tuesday—Registration and matriculation of new students with advanced standing.
- Sept. 20 Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 21 Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 21-23 Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of graduate students.
- Nov. 30 Thursday—Thanksgiving Day: a holiday.
- Dec. 11 Monday—Duke University Day.
- Dec. 20 Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3 Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17 Wednesday—Mid-year examinations begin.
- Jan. 31 Wednesday—Last day for matriculation for second semester.
- Feb. 1 Thursday—Second semester begins.
- March 30 Saturday, 1:00 P.M.—Spring vacation begins.
- April 8 Monday, 8:00 A.M.—Instruction is resumed.

- April 15 Monday—Last day for submitting orations for Wiley Gray Contest.
- April 30 Tuesday—Last day for selection of courses for ensuing year.
- May 11 Saturday—Earliest date for beginning of Honors examination.
- May 17 Friday—Final examinations begin.
- June 1 Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2 Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3 Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

# 1939

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## HISTORY

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Duke University owes its existence to a charitable trust set up by James B. Duke by an Indenture dated December 11, 1924, and known as the Duke Endowment; to gifts made by him to the University in the succeeding year; and to bequests that came through his will at his death, October 10, 1925. It is built around Trinity College, which was brought to Durham and maintained there largely through the generosity of the Duke family.

Trinity College in its origins goes back to 1838. In that year the citizens of a rural community in the northwest section of Randolph County, North Carolina, established a school with Rev. Brantley York as principal. In 1839 this school was enlarged and named Union Institute. In 1841 it was incorporated by the following enactment of the Legislature of North Carolina:

*An Act to Incorporate Union Institute Academy:\**

Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That Nathan Hunt, Joseph Mendenhall, Joseph Johnson, Lewis Leach, Jabez Leach, Martin W. Leach, and Ahi Robbins, and their successors, are hereby constituted a body corporate and politic to be known and distinguished by the name and style of the Trustees of the Union Institute Academy, and by that name shall have succession, and shall be able and capable in law to have, receive and possess, lands and tenements, goods and chattels, acquired by gift or otherwise, and use and apply the same according to the will of the donor, or dispose of the same when not forbidden by the terms of the gift. They may sue and be sued, plead and be impleaded in any Court of Justice, and shall have power to fill vacancies in their body, which may occur by death, resignation, or otherwise, establish such laws and regulations for the government of said Institution as they may deem necessary, not inconsistent with the laws of this State, and do and perform all such acts and things as are incident to, and usually exercised for, bodies politic, for the accomplishments of the object contemplated.

Ratified the 12th day of January, 1841.

In the year 1842 Braxton Craven became principal of the school. The growth and development of the school caused the Trustees to plan to put it in direct relation to the educational needs of the public schools of the State. Application was made to the Legislature of North Carolina for a new charter, and on January 28, 1851, Union Institute Academy was incorporated as Normal College by the following enactment:

*An Act to Incorporate Union Institute, in Randolph County, a Normal College:\*\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That the present Trustees of Union Institute, to-wit: M. W. Leach, Ahi Robbins, Joseph Johnson, James Leach, and C. M. Hines; together with Rev. B. Craven, of said Institute; Hon. A. H. Sheppard, of Salem; John A. Gilmer, Esq., of Greensboro; Col. Samuel Hargrave, of Lexington; J. L. Blackmer, Esq., of Salisbury; Rev. S. A. Andrews, of Greensboro; Dr. S. G. Coffin, of Jamestown; H. B. Elliott, Esq., of Randolph; J. W. Thomas, Esq., of Davidson; John B. Troy, of Randolph; J. P. H. Russ, of Randolph; Eli Russell, of Montgomery, and Gen. J. M. Leach, of Lexington; and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of the Normal College, and by that name shall have a perpetual succession, and a common seal, and be able and capable in law, of holding lands, tenements and chattels, sufficient for the uses and purposes of said College, and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That said Trustees shall have the power to fix the time of holding the annual and other meetings, and to prescribe the manner in which vacancies in their body may be filled, five Trustees being a quorum to do business.

\* Laws of North Carolina, 1840-1843.

\*\* Laws of 1850-1851, chapter 20, page 56.

SEC. 3. Be it further enacted, That the said College shall be under the supervision, management and government of a President and such other persons as said Trustees may appoint; the said President, with the advice of the other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said College, and fix the number and compensations of teachers to be employed therein, to prescribe the preliminary examinations and the terms and conditions on which pupils shall be received and instructed, and the number of pupils to be received from the respective counties.

SEC. 4. Be it further enacted, That said Trustees shall have power to make such rules, regulations and by-laws, not inconsistent with the Constitution of the United States and of this State as may be necessary for the good government of said College, and the management of the property and funds of the same.

SEC. 5. Be it further enacted, That when any pupil shall have sustained a satisfactory examination on the studies, or course of studies, prescribed by the Faculty and Trustees of said College, such person shall be deemed qualified to teach common schools and may receive a certificate, signed by the President and at least seven Trustees, which certificate shall be sufficient evidence of ability to teach in any of the common schools in this State, without any reexamination of the county committees; and where county certificates are now required before paying out the public funds, the certificate of the Normal College shall answer in lieu thereof.

SEC. 6. Be it further enacted, That the whole College course shall be divided into four classes or degrees, styled first, second, third and fourth, and students shall be ranked accordingly.

SEC. 7. Be it further enacted, That all pupils entering said College shall first sign a declaration, in a book to be kept by the President for that purpose as follows: "We, the subscribers, hereby declare that it is our intention to devote ourselves to the business of teaching common schools in the State of North Carolina, and that our sole object in resorting to this Normal College is the better to prepare ourselves for that important duty," which declaration it shall be the duty of the President to explain to the pupils before they sign the same.

Ratified 28th January, 1851.

On November 21, 1852, the Legislature ratified amendments to the charter of 1851 including changes and additions as follows:

*An Act to Amend an Act, Entitled "An Act to Incorporate Union Institute, in Randolph County, Normal College":\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina, and it is hereby enacted by the authority of the same, That J. C. Dobbin, John A. Gilmer, W. H. Washington, A. H. Sheppard, H. B. Elliott, J. M. Leach, Joseph Johnson, S. G. Coffin, A. S. Andrews, Joseph B. Cherry, N. W. Woodfin, B. Craven, James Leach, Calvin Graves, Ahi Robbins, John B. Troy, Robert Strange, John W. Thomas, Samuel Hargrave, J. P. H. Russ, M. W. Leach, W. L. Steele, R. M. Saunders, W. B. Lane, G. W. Caldwell, C. H. Wiley, Jabez Leach, John A. Lillington, J. T. Morehead, Thales McDonald, R. C. Puryear, S. P. Hill, Alexander Gray, James M. Garrett, and Edward Ogburn and their successors be, and they are hereby declared, a body politic and corporate, to be known and distinguished by the name and style of "The Trustees of Normal College," and by that name and style shall have a perpetual succession and a common seal, and be able and capable in law of holding lands, tenements and chattels for the uses and purposes of said College; and of suing and being sued, and of pleading and being impleaded.

SEC. 2. Be it further enacted, That the Governor of the State shall be *ex-officio* President of the Board of Trustees, and that the common school superintendent, should such an officer exist, shall be *ex-officio* Secretary of the Board, and that all vacancies in the Board shall be filled by a majority of the Trustees of said College.

SEC. 3. Be it further enacted, That the Trustees shall have power of appointing an Executive Committee, to consist of seven members, which committee shall control the internal regulations of said College, and fix all salaries and emoluments, and of doing all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 4. . . . They shall also have power to grant such degrees and marks of honor as are given by Colleges and Universities generally.

SEC. 5. Be it further enacted, That the Secretary of the Board of Trustees shall, within ten days after the meeting of each [Legislature] make a full report of the condition and operations of said Normal College, and the general character of Normal instruction; also, the condition and progress of Normal schools generally, together with all other information deemed important in the education of teachers, giving also the names and residencies of all who have been authorized to teach.

SEC. 6. Be it further enacted, That the President and Directors of the literary fund are hereby directed to loan to the Trustees of Normal College, the sum of ten thousand dollars out of any moneys not otherwise appropriated, at six per cent interest, to be paid semi-annually, upon said Trustees giving bond and good security for the same.

Under the amended charter authorizing the institution to confer degrees, two students were graduated on July 28, 1853, with the degree of Bachelor of Arts.

\* Laws of 1852-1853, chapter 88, page 161.



In the year 1853-1854 a larger building was erected by means of money lent by the State of North Carolina under the authority granted in the amended charter. In November, 1856, the Trustees of Normal College authorized President Craven to propose to the North Carolina Conference of the Methodist Episcopal Church, South, that the institution be placed under the ownership and control of that body. The Conference passed the following resolution:

1. That the Conference authorize and request the Board of Trustees of Normal College to raise by donations twenty thousand dollars.
2. That all lands and property belonging to the College be conveyed to the Board of Trustees in trust for the North Carolina Conference.
3. That the Conference fill all vacancies in the Board.
4. That the Conference appoint a visiting committee, which committee shall have equal power with the Board as to the internal regulations and operations of the College.

Within the following two years the Trustees arranged to meet all the conditions stipulated. The North Carolina Conference of the Methodist Episcopal Church, South, in consequence, became invested with the complete ownership and control of the College.

On February 16, 1859, the charter was amended and the name of the institution changed to Trinity College by the following enactment of the Legislature of North Carolina:

*An Act to Amend the Charter of Normal College:\**

SECTION 1. Be it enacted by the General Assembly of the State of North Carolina and it is hereby enacted by the authority of the same, That the corporation established by an act passed in 1852, and known by the style and title of the "Trustees of Normal College," be and the same is hereby changed to Trinity College; and said corporation shall henceforth, by the name and style of Trinity College, hold and use all the authority, privileges, possessions and liabilities it had under the former title and name.

SEC. 2. Be it further enacted, That the estate, real and personal, received and controlled by the Trustees of Trinity College, shall be for the uses and purposes of a literary institution for the North Carolina Conference of the Methodist Episcopal Church, South.

SEC. 3. Be it further enacted, That all vacancies in the Board of Trustees shall be filled by said North Carolina Conference: *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundaries of the State, or who may refuse or neglect to discharge the duties of a Trustee.

SEC. 4. Be it further enacted, That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 5. Be it further enacted, That no person shall keep, maintain, or have at Trinity College, or within two miles thereof, any tippling-house establishment, or place for the sale of wine, cordials, spirituous or malt liquors; nor shall any person in the State, without a written permission from the Faculty, sell, or offer to sell, give or deliver to any student of Trinity College, or to any other person, any wine, cordials, spirituous or malt liquors for the purpose of being used, or with a knowledge that the same will be used at said College, or within two miles thereof, by any student.

SEC. 6. Be it further enacted, That no person shall set up, keep or maintain at Trinity College, (or) within two miles thereof, any public billiard table, or other table of any kind at which games of chance or skill, by whatever name called, may be played; and that no person, without written permission from the Faculty, shall within the same limits exhibit any theatrical, sleight-of-hand, natural or artificial curiosities, or any concert, serenade, or performance in music, singing or dancing.

SEC. 7. Be it further enacted, That sections second, fourth and fifth of the charter passed in 1852, are hereby repealed, and that all acts and laws coming within the meaning and purview of this present act are hereby repealed.

During the Civil War the College shared the common fate of Southern colleges. President Craven resigned in 1863, and Professor William T. Ganaway was elected his successor. In October, 1865, Dr. Craven was reelected to the presidency; however, the work of the College, which had been suspended in April of that year, was not resumed till January, 1866. Dr. Craven remained president of the College till his death, November 7, 1882. Professor William Howell Pegram was then elected chairman of the Faculty. He served till the close of the academic year, June, 1883.

\* Laws of 1858-1859, chapter 85, page 81.

Reverend Marquis L. Wood was elected president in 1883; he resigned in December, 1884, when Professor John F. Heitman was elected chairman of the Faculty. John Franklin Crowell was chosen president of the College in April, 1887.

President Crowell conceived the idea of enlarging the scope of college work and of removing Trinity College to a city. The Board of Trustees on May 7, 1889, passed the following resolutions:

*Resolved* (1). That after mature and prayerful consideration, we believe it best for the interest of Methodism in North Carolina, and the cause of God, to move Trinity College to some prominent center within this State: *Provided*, There shall be tendered to this Board a proper guarantee of a suitable site, with buildings on it, of at least equal value, and as well suited for the uses of the College as those on the present site.

*Resolved* (2). That a committee of five be appointed to carry out the true intent of the above resolution, and report to the next annual meeting of the Board of Trustees.

At a meeting of the Trustees held in Greensboro, N. C., November 30, 1889, the following resolutions were adopted:

*Resolved* (1). That the Board of Trustees of Trinity College accept the offer of the citizens of Raleigh to erect a college building on the site designated, said building to be according to the plans and specifications mentioned in their offer.

*Resolved* (2). That we recommend the N. C. Annual Conference of the M. E. Church, South, to authorize the removal of Trinity College in accordance with the above and former resolutions passed by this Board.

*Resolved* (3). That the grounds and buildings now owned and used at Trinity College be held by the same Board of Trustees to be used as an academical department to prepare students for the college classes.

In accordance with these resolutions, through President Crowell, the Conference was asked at its session in Greensboro, December, 1889, to grant permission to remove the College to the City of Raleigh. The Conference took the following action:

*Resolved*, That the Board of Trustees of Trinity College be and is hereby authorized and directed to move Trinity College to the City of Raleigh, when the citizens of said city shall have erected on the site designated and known as the Boylan lot, the building proposed and agreed to be built by them *Provided*, That before said college is moved, as aforesaid, there shall be made, executed and delivered to said Trustees a good and sufficient deed in fee simple with proper covenants of warranty and seizin, conveying the lot and site designated to said Trustees and their successors in office, for the use and benefit of the North Carolina Conference, Methodist Episcopal Church, South, as it now exists, and for the use and the benefit of such Conferences, as may be hereafter created by the Methodist Episcopal Church, South, out of any territory within the State of North Carolina.

Some time after this action of the Conference, Mr. Washington Duke and other citizens of Durham, N. C., made a proposition to the Trustees to locate the College in Durham, and this proposition was accepted. On January 21, 1891, the Legislature of North Carolina issued the following charter:

*An Act to Amend the Charter of Trinity College:*

The General Assembly of North Carolina do enact:

SECTION 1. That the Trustees of Trinity College are authorized and empowered to remove the operations and exercises of said College, and to locate the buildings deemed necessary by them for the purpose of the College, at or near the town of Durham, North Carolina. They may, if they so elect, establish and maintain in connection with said College institutions of primary and intermediate education at the present site of the College in Randolph County, and at such other points as they may now or hereafter determine, for the purpose of preparing students for admission to a collegiate course. The management of such auxiliary and subordinate high schools and academies shall be vested in the said Board of Trustees, who are authorized to make by-laws and regulations for them, as well as for the College proper.

SEC. 2. That the Trustees of Trinity College are authorized to receive and hold by gift, devise or purchase, property, real and personal, to be held for the use of said College and its dependent schools or for the use of either or both (as may be designated in the conveyance or will), (to a value not exceeding in the aggregate sum three millions of dollars).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of M. E. Church, South, twelve by the W. N. C. Conference of said church, and twelve by graduates of said College. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall

regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise, of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. The terms of the Trustees now in office shall expire January first, one thousand eight hundred and ninety-two. At the first election held under this amendment to the Charter, the body of graduates and each of the Conferences shall respectively elect four Trustees for the term of two years; in like manner each of said constituencies shall elect four Trustees for the term of four years, and in like manner each shall elect four Trustees for the term of six years.

In September, 1892, the College opened its first session in the new plant located at Durham. In May, 1894, President Crowell resigned, and on August 1, 1894, Reverend John C. Kilgo was elected his successor. In May, 1897, the Trustees authorized the admission of women as students to all departments of the College.

On account of the fact that the fundamental laws under which the College was managed were contained in an original charter and in several amendments, it was deemed best by the Board of Trustees, in June, 1902, to appoint a committee to make an application to the Legislature for a new charter, which should unify and harmonize the provisions of the existing legislation. On February 28, 1903, the Legislature of North Carolina granted the new charter which is identical with the charter as found on pages 17-18, except that the corporate name of the institution is changed to Duke University and the corporation is given perpetual existence, an amendment enacted by the General Assembly of North Carolina, January 19, 1911, having already stricken out the limitations set in former charters to the amount of property the College might hold.

Having been elected a bishop of the Methodist Episcopal Church, South, President Kilgo resigned in June, 1910. William Preston Few was elected to succeed him and was formally inaugurated November 9, 1910.

On December 29, 1924, the Board of Trustees of Trinity College met to consider the Indenture of Trust executed by Mr. James B. Duke, December 11, 1924. The Board voted unanimously to accept the provisions of the Indenture in so far as it affected Duke University, and authorized the necessary steps to be taken whereby, on December 30, 1924, a charter for the University was granted. The charter follows closely that of Trinity College and is printed on pp. 15-16.

Duke University is approved by the recognized accrediting agencies in the field of University education and is a member of various associations devoted to the interests of such education. Among those in which it holds membership are the Association of American Universities, the Southern Association of Colleges and Secondary Schools, the American Association of Colleges, the Southern University Conference, the American Association of Law Schools, the Association of American Medical Colleges, the American Association of Theological Schools, and others.

## GOVERNMENT

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### 1. THE INDENTURE OF TRUST BY WHICH THE UNIVERSITY WAS CREATED

Among the provisions of Mr. Duke's indenture of trust was an educational institution to be known as Duke University, as respects which the Indenture contains the following provisions, and these provisions apply also to gifts made by Mr. Duke the year before he died and to bequests that came to the University at his death or that have come since:

I. (In Article FOURTH) The Trustees hereunder are hereby authorized and directed to expend as soon as reasonably may be not exceeding Six Million Dollars of the corpus of this trust in establishing at a location to be selected by them within the State of North Carolina an institution of learning to be known as Duke University, for such purpose to acquire such lands and erect and equip thereon such buildings according to such plans as the Trustees may in their judgment deem necessary and adopt and approve for the purpose, to cause to be formed under the laws of such state as the Trustees may select for the purpose a corporation adequately empowered to own and operate such properties under the name of Duke University as an institution of learning according to the true intent hereof, and to convey to such corporation when formed the said lands, buildings and equipment upon such terms and conditions as that such corporation may use the same only for such purposes of such university and upon the same ceasing to be so used then the same shall forthwith revert and belong to the Trustees of this trust as and become a part of the corpus of this trust for all of the purposes thereof.

However, should the name of Trinity College, located at Durham, North Carolina, a body politic and incorporate, within three months from the date hereof (or such further time as the Trustees hereof may allow) be changed to Duke University, then, in lieu of the foregoing provisions of this division "FOURTH" of this Indenture, as a memorial to his father, Washington Duke, who spent his life in Durham and whose gifts, together with those of Benjamin N. Duke, the brother of the party of the first part, and of other members of the Duke family, have so largely contributed toward making possible Trinity College at that place, he directs that the Trustees shall expend of the corpus of this trust as soon as reasonably may be a sum not exceeding Six Million Dollars in expanding and extending said University, acquiring and improving such lands, and erecting, removing, remodeling and equipping such buildings, according to such plans, as the Trustees may adopt and approve for such purpose to the end that said Duke University may eventually include Trinity College as its undergraduate department for men, a School of Religious Training, a School for Training Teachers, a School of Chemistry, a Law School, a Co-ordinate College for Women, a School of Business Administration, a Graduate School of Arts and Sciences, a Medical School and an Engineering School, as and when funds are available.

II. (In Article FIFTH) Thirty-two per cent of said net amount not retained as aforesaid for addition to the corpus of this trust shall be paid to that Duke University for which expenditures of the corpus of the trust shall have been made by the Trustees under the "Fourth" division of this Indenture so long as its name shall be Duke University and it shall not be operated for private gain, to be utilized by its Board of Trustees in defraying its administration and operating expenses, increasing and improving its facil-



ities and equipment, the erection and enlargement of buildings and the acquisition of additional acreage for it, adding to its endowment or in such other manner for it as the Board of Trustees of said institution may from time to time deem to be of its best interests, provided that in case such institution shall incur any expense or liability beyond provision already in sight to meet same, or in the judgment of the Trustees under this Indenture be not operated in a manner calculated to achieve the results intended hereby the Trustees under this Indenture may withhold the whole or any part of such percentage from said institution so long as such character of expense or liabilities or operation shall continue, such amounts so withheld to be in whole or in part either accumulated and applied to the purposes of such University in any future year or years, or utilized for the other objects of this Indenture, or added to the corpus of this trust for the purpose of increasing the principal of the trust estate, as the Trustees may determine.

III. (In Article SEVENTH) I have selected Duke University as one of the principal objects of this trust because I recognize that education, when conducted along sane and practical, as opposed to dogmatic and theoretical lines, is next to religion, the greatest civilizing influence. I request that this institution secure for its officers, trustees, and faculty, men of such outstanding character, ability, and vision as will insure its attaining and maintaining a place of real leadership in the educational world, and that great care and discrimination be exercised in admitting as students only those whose previous record shows a character, determination, and application evincing a wholesome and real ambition for life. And I advise that the courses at this institution be arranged, first, with special reference to the training of preachers, teachers, lawyers and physicians, because these are most in the public eye, and by precept and example can do most to uplift mankind, and second, to instruction in chemistry, economics and history, especially the lives of the great of earth, because I believe that such subjects will most help to develop our resources, increase our wisdom and promote human happiness.

IV. (In Article THIRD) As respects any year or years and any purpose or purposes for which this trust is created (except the payments hereinafter directed to be made to Duke University) the Trustees in their uncontrolled discretion may withhold the whole or any part of said incomes, revenues and profits which would otherwise be distributed under the "Fifth" division hereof, and either (1) accumulate the whole or any part of the amount so withheld for expenditures (which the Trustees are hereby authorized to make thereof) for the same purpose in any future year or years, or (2) add the whole or any part of the amounts so withheld to the corpus of the trust, or (3) pay, apply and distribute the whole or any part of said amounts to and for the benefit of any one or more of the other purposes of this trust, or (4) pay, apply and distribute the whole or any part of said amounts to or for the benefit of any such like charitable, religious or educational purpose within the State of North Carolina or the State of South Carolina, or any such like charitable hospital purpose which shall be selected therefor by the affirmative vote of three-fourths of the then Trustees at any meeting of the Trustees called for the purpose, complete authority and discretion in and for such selection and utilization being hereby given the Trustees in the premises.

## 2. THE CHARTER OF THE UNIVERSITY

SECTION 1. That A. P. Tyer, J. H. Southgate, B. N. Duke, G. A. Oglesby, V. Ballard, J. A. Long, J. F. Bruton, J. N. Cole, F. A. Bishop, J. G. Brown, C. W. Toms, J. W. Alspaugh, W. R. Odell, J. A. Gray, F. Stikeleather, Kope Elias, S. B. Turrentine, P. H. Hanes, T. F. Marr, G. W. Flowers, M. A. Smith, R. H. Parker, W. J. Montgomery, F. M. Simmons, O. W. Carr, R. A. Mayer, N. M. Journey, Dred Peacock, B. B. Nicholson, W. G. Bradshaw, E. T. White, T. N. Ivey, J. B. Hurley, R. L. Durham, W. C. Wilson, and their associates and successors shall be, and continue as they have been, a

body politic and corporate under the name and style of DUKE UNIVERSITY, and under such name and style shall have perpetual existence and are hereby invested with all the property and rights of property which now belong to the said corporation, and said corporation shall henceforth and perpetually, by the name and style of DUKE UNIVERSITY, hold and use all the authority, privileges, and possessions it had or exercised under any former title and name, and be subject to all recognized legal liabilities and obligations now outstanding against said corporation.

SEC. 2. That such corporation is authorized to receive and hold by gift, devise, purchase or otherwise, property, real and personal, to be held for the use of said University and its dependent schools or for the use of either or both (as may be designated in the conveyance or will).

SEC. 3. That the Trustees shall be thirty-six in number, of whom twelve shall be elected by the North Carolina Conference of the M. E. Church, South; twelve by the W. N. C. Conference of the said church; and twelve by the graduates of said University; *Provided, however,* That no person shall be elected a Trustee till he has first been recommended by a majority of the Trustees present at a regular meeting; and the Trustees shall have power to remove any member of their body who may remove beyond the boundary of the State or who may refuse or neglect to discharge the duties of a Trustee. The term of office of Trustees shall be six years, and they shall be so arranged that four Trustees shall be elected by each Conference and four by the graduates every two years. The Trustees shall regulate by by-laws the manner of election of the Trustees to be chosen by the graduates. Should there exist a vacancy by death, resignation, or otherwise of any Trustee, the same shall be filled for the unexpired term by the Board of Trustees. That the present Trustees shall continue and remain in office during the term for which they have been heretofore respectively elected.

SEC. 4. That the said corporation shall be under the supervision, management and government of a president and such other persons as said Trustees may appoint; the said president, with the advice of the other persons so appointed, shall from time to time make all needful rules and regulations for the internal government of said University and prescribe the preliminary examinations, and the terms and conditions on which pupils shall be received and instructed.

SEC. 5. That said Trustees shall have power to make such rules, regulations, and by-laws not inconsistent with the Constitution of the United States and of this State, as may be necessary for the good government of said University and the management of the property and funds of the same.

SEC. 6. That the Trustees shall have power to fix the time of holding their annual and other meetings, to elect a president and professors for said University, to appoint an executive committee to consist of seven members, which committee shall control the internal regulations of said University and fix all salaries and emoluments, and to do all other things necessary for an institution of learning not inconsistent with the laws of this State and of the United States.

SEC. 7. That the Faculty and Trustees shall have the power of conferring such degrees and marks of honor as are conferred by colleges and universities generally; and that five Trustees shall be a quorum to transact business.

SEC. 8. That all laws and parts of laws or of the charter heretofore granted which are in conflict with this act are hereby repealed.

SEC. 9. That this act shall be in force from and after its ratification and acceptance by the Board of Trustees.

### 3. THE BY-LAWS OF THE UNIVERSITY

1. AIMS OF THE UNIVERSITY. The aims of Duke University are to assert a faith in the eternal union of knowledge and religion set forth in the teachings and character of Jesus Christ, the son of God; to advance learning



in all lines of truth; to defend scholarship against all false notions and ideals; to develop a Christian love of freedom and truth; to promote a sincere spirit of tolerance; to discourage all partisan and sectarian strife; and to render the largest permanent service to the individual, the state, the nation, and the church. Unto these ends shall the affairs of this University always be administered.

2. **THE UNIVERSITY TRUSTEES.** The Alumni Trustees, nominated by the Board as provided for in the charter, are elected by the Alumni Association. The officers of the Board are chairman vice-chairman, and recording secretary. The chairman calls to order and presides at all meetings of the Board, calls extraordinary meetings when, in his judgment, such meetings may be necessary, and represents the Trustees at public meetings of the University. He is ex-officio member of the Executive Committee. In the absence of the chairman the vice-chairman calls to order and presides over meetings of the Board, but does not perform any of the other duties of the chairman unless ordered to do so by the Board of the Executive Committee. The recording secretary records the minutes of all the meetings, does the correspondence, and is the custodian of the records and other documents that may belong to the Board.

3. **THE EXECUTIVE COMMITTEE.** The Executive Committee consists of seven members, three of them from the University Trustees, including the chairman ex-officio, three from the Endowment Trustees, and the President of the University ex-officio. It performs the duties set out for it in the charter—namely, controls the internal regulations of the University and fixes all salaries and emoluments. The Committee is furthermore authorized to appoint officers and teachers of the University subject to the approval of the University Trustees. The Committee is elected by the University Trustees, three of them on nomination of the Endowment Trustees, and the Committee elects its own officers. It meets once a month and oftener when necessary. The Committee through its chairman makes annually a report to the University Trustees.

4. **OFFICERS OF THE UNIVERSITY.** The officers of the University are a president, three vice-presidents, a treasurer, a dean of the University, and such other deans as may be needed, a recording dean or registrar, and a secretary who is also secretary of the faculty. Whenever it may seem wise more than one of these offices may be held by one man.

*President.* The President of the University calls, and presides at, all the meetings of the Faculties, sees that the laws and regulations of the Executive Committee and the Trustees affecting the administration and work of the University are carried out, appoints all committees of the Faculties and has direction of the discipline and work of the University. He has the authority to veto any action of the Faculties, when, in his judgment, such action is not in harmony with the aims and laws of the University, or when he may deem such action as unwise. However, in every instance he shall submit to the Faculty in writing his reasons for setting aside their action, and the secretary of the Faculty shall record his reasons in the record book of the Faculty. The President makes an annual report to the Board of the work, conditions, and needs of the University, and of other matters that may be of concern to it or to the cause of higher education. He nominates all members of the Faculties, and represents them at all public meetings of the University. He is an ex-officio member of the Executive Committee; and acts as the medium of communication between the University Trustees and the Endowment Trustees.

*Vice-Presidents.* The three Vice-Presidents of the University have supervision of the work of the University in the divisions of (a) business, (b) education, and (c) student life. In the absence of the President, Vice-Presidents in the order of official seniority may perform such duties of the President as may demand immediate attention.

*Treasurer.* The Vice-President in the Business Division and Treasurer has the custody of all the property of the University; that is, he has the

primary responsibility for all collections and disbursements, for all securities and financial records, and for the care of the entire physical plant. He is required to make monthly reports to the Executive Committee and annual reports to the Trustees concerning his accounts and the property in his charge. It shall be the duty of the Treasurer to nominate to the Executive Committee an assistant treasurer and other assistants in sufficient number to do well the duties of his office. All officers entrusted with property belonging to the University are required to keep records of the same, and these records are at all times subject to the inspection of the Treasurer. The Treasurer and his assistants shall be required to give bond, joint or several, in an amount not less than \$50,000 for the faithful performance of their duties.

5. **FACULTIES.** The General Faculty of the University is composed of professors, associate professors, and assistant professors who have been elected to membership in the Faculty. Concerning questions that do not lie exclusively in the field of any one Faculty and questions of University educational policy this Faculty has the right to enact such regulations as it may deem necessary to carry on the instruction, advance the standard of work, and otherwise develop the scholarly aims of the University. The General Faculty recommends to the University Trustees such persons as it deems fit to receive academic degrees or other marks of academic distinction. The Colleges, and the graduate and professional schools have their own faculties, each with its dean and other appropriate officers elected by the Executive Committee with the approval of the University Trustees, and each is authorized to perform any educational functions that lie in its field. Actions of all the Faculties are subject to the approval of the President of the University.

6. **ACADEMIC YEAR.** The academic year begins on the morning of the Wednesday following September 15. The annual Commencement comes in the week including the first Sunday in June. The Christmas recess begins at 1:00 P.M. December 20 (or December 19 if December 20 falls on Sunday), and ends at 8:00 A.M., January 3 (or January 4 if January 3 falls on Sunday). The spring recess begins at 1:00 P.M. of the Saturday in March nearest to March 25, and ends at 8:00 A.M., of Monday nine days later. Thanksgiving Day is a holiday.

7. **TENURE OF OFFICE.** Teachers of all ranks are subject to removal by the Executive Committee, with the approval of the University Trustees, for misconduct or neglect of duty. Teachers may be elected for terms of one, two, three, or four years; or teachers with the rank of professor may be elected without time-limit. Administrative officers are usually elected without time-limit, but the Executive Committee, with the approval of the University Trustees, may remove any officer of the University whenever, in their opinion, he is not properly performing the duties of his office.

8. The by-laws may be amended at any regular meeting of the University Trustees by the affirmative vote of two-thirds of the full membership of the Board, provided that the proposed amendment is submitted through the Secretary of the Board to the members at least twenty days before the meeting.

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### SABBATICAL LEAVE

Sabbatical leave of absence for members of the General Faculty is granted under regulations adopted by the Executive Committee of the Trustees on March 28, 1923, revised in 1928, partly in abeyance in the year 1933-34 and the succeeding three years, and restored in the year 1937-38. The conditions on which sabbatical leave of absence is granted are set forth below.

1. Every member of the General Faculty (composed of professors, associate professors, and assistant professors) is eligible for sabbatical leave after six years in the service of the University. Such leave may be taken for a full year at half salary or a half year at full salary.

2. In order to obtain a sabbatical leave written request for such leave must be filed with the President of the University by December first of the academic year preceding the one in which the leave is to take effect.

3. If in exceptional cases it should develop that the granting of leave to an applicant during the year for which application is made would raise very serious difficulties detrimental to the best interests of the applicant's department or school, or the interests of the institution as a whole; or because of questions concerning the applicant's period of service prior to the leave, the President shall appoint a committee which shall have power to decide the question of granting the sabbatical leave for the particular year under consideration. This committee shall consist of five members as follows: two members of the general faculty appointed yearly by the President, the Treasurer of the University, the Dean of the school or college of which the applicant is a member, the chairman of the applicant's department, or should no such chairman exist another member of the applicant's department.

4. If this committee should decide against the granting of a sabbatical leave for the year for which the applicant applied, the applicant would be eligible for sabbatical leave the following year or any year thereafter upon making application in due form as above.

5. After September 1, 1928, if a member of the faculty on becoming eligible for sabbatical leave does not for some special reason apply for such leave, he may count the additional years of service prior to his leave toward the six years of service necessary before he can apply for a subsequent leave. If in an exceptional case an applicant for personal reasons applies for a sabbatical leave to be effective in advance of his regular year and such leave is granted, he shall not be eligible for a subsequent leave until he has served six years plus the number of years by which this leave is advanced.

6. On recommendation of the committee after leave of absence has been granted it may be postponed for urgent reasons and under conditions to be determined by the committee.

7. All those cases which have occurred in the past or which may occur in the future in which leave of absence is granted under conditions where the absentee receives full pay for a half year or half pay or more for a full year's leave of absence shall be considered as regular sabbatical leave under these regulations.

8. These revised regulations became effective as of September 1, 1928, and sabbatical leaves under such regulations began with the academic year 1929-30. The regulations were partly in abeyance in 1933-34, 1934-35, 1935-36, and 1936-37. The restoration of the regulations begins with the academic year 1937-38. The four years, 1933-34, 1934-35, 1935-36, and 1936-37, may not count toward the six years of service necessary before application can be made for leave of absence. In all cases in which special arrangements have been made for the granting of sabbatical leave (as described in condition No. 7) during the period of partial abeyance of the plan, the next six years of service shall be counted as beginning with the academic year 1937-38. All other members of the General Faculty who apply for sabbatical leave may count the years of service they had to their credit at the beginning of the academic year 1933-34.

# GOVERNING BODIES AND OFFICERS

## EXECUTIVE COMMITTEE OF THE UNIVERSITY

Consisting of three members from the University Trustees, three from the Endowment Trustees, and the President of the University.

	Year of Election		
J. F. BRUTON, Chairman.....	1918.....	Wilson,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
W. P. FEW.....	1910.....	Durham,	N. C.
M. E. NEWSOM.....	1917.....	Durham,	N. C.
W. N. REYNOLDS.....	1933.....	Winston-Salem,	N. C.
J. H. SEPAK.....	1929.....	Gastonia,	N. C.
W. R. PERKINS.....	1937.....	New York,	N. Y.
R. L. FLOWERS, Recording Secretary.....	1923.....	Durham,	N. C.

## UNIVERSITY TRUSTEES

Term Expires December 31, 1939

M. E. NEWSOM.....	1917.....	Durham,	N. C.
E. S. BOWLING.....	1939.....	New York,	N. Y.
J. A. THOMAS.....	1936.....	White Plains,	N. Y.
W. W. PEELE.....	1921.....	Richmond,	Va.
W. R. PERKINS.....	1924.....	New York,	N. Y.
D. C. ROPER.....	1929.....	Washington,	D. C.
F. M. WEAVER.....	1909.....	Asheville,	N. C.
B. S. WOMBLE.....	1915.....	Winston-Salem	N. C.

### FROM THE ALUMNI

H. R. DWIRE, Ass't Rec. Secretary.....	1931.....	Durham,	N. C.
R. A. MAYER.....	1897.....	Charlotte,	N. C.
F. M. SIMMONS.....	1892.....	New Bern,	N. C.
W. A. STANBURY.....	1933.....	Asheville,	N. C.

Term Expires December 31, 1941

J. F. BRUTON, Chairman.....	1900.....	Wilson,	N. C.
T. F. MARR, Vice-Chairman.....	1900.....	Brevard,	N. C.
D. S. ELIAS.....	1929.....	Asheville,	N. C.
P. H. HANES.....	1912.....	Winston-Salem,	N. C.
J. L. HORNE, JR.....	1934.....	Rocky Mount,	N. C.
J. A. LONG.....	1915.....	Roxboro,	N. C.
S. B. TURRENTINE.....	1893.....	Greensboro,	N. C.
EARLE W. WEBB.....	1933.....	New York,	N. Y.

### FROM THE ALUMNI

S. S. ALDERMAN.....	1934.....	Washington,	D. C.
W. N. REYNOLDS.....	1927.....	Winston-Salem,	N. C.
J. H. SEPAK.....	1916.....	Gastonia,	N. C.
WILLIS SMITH.....	1929.....	Raleigh,	N. C.

## Term Expires December 31, 1943

	Year of Election		
R. L. FLOWERS, Recording Secretary.....	1927.....	Durham,	N. C.
G. G. ALLEN.....	1923.....	New York,	N. Y.
J. H. BARNHARDT.....	1918.....	Raleigh,	N. C.
JAMES A. BELL.....	1920.....	Charlotte,	N. C.
R. G. CHERRY.....	1934.....	Gastonia,	N. C.
THOMAS M. GRANT.....	1933.....	Greenville,	N. C.
J. R. SMITH.....	1934.....	Mount Airy,	N. C.
J. P. FRIZZELLE.....	1937.....	Snow Hill,	N. C.

## FROM THE ALUMNI

W. W. FLOWERS.....	1925.....	New York,	N. Y.
J. B. HURLEY.....	1896.....	Goldsboro,	N. C.
C. F. LAMBETH.....	1915.....	Thomasville,	N. C.
C. K. PROCTOR.....	1935.....	Oxford,	N. C.

## ENDOWMENT TRUSTEES

MRS. J. B. DUKE.....	1924.....	New York,	N. Y.
G. G. ALLEN, Chairman.....	1924.....	New York,	N. Y.
W. R. PERKINS, Vice-Chairman.....	1924.....	New York,	N. Y.
E. C. MARSHALL, Assistant Secretary....	1924.....	Charlotte,	N. C.
N. A. COCKE, Vice-Chairman.....	1924.....	Charlotte,	N. C.
C. I. BURKHOLDER.....	1924.....	Charlotte,	N. C.
B. E. GEER.....	1924.....	Greenville,	S. C.
A. H. SANDS, JR., Secretary.....	1924.....	New York,	N. Y.
W. C. PARKER, Treasurer.....	1924.....	New York,	N. Y.
W. B. BELL.....	1924.....	New York,	N. Y.
W. S. RANKIN.....	1925.....	Charlotte,	N. C.
R. L. FLOWERS.....	1926.....	Durham,	N. C.
W. N. REYNOLDS.....	1931.....	Winston-Salem,	N. C.
W. S. O'B. ROBINSON, JR.....	1932.....	Charlotte,	N. C.
MRS. DORIS DUKE CROMWELL.....	1933.....	New York,	N. Y.

## COMMITTEES OF THE UNIVERSITY TRUSTEES

*Buildings and Grounds:* J. R. SMITH, CHERRY, BARNHARDT.

*Business Administration of the University:* HANES, LONG, ELIAS, BOWLING.

*Colleges:* ALDERMAN, ROPER, HORNE.

*School of Forestry:* DWIRE, W. W. FLOWERS, NEWSOM.

*Graduate School:* WEBB, TURRENTINE, SIMMONS, R. L. FLOWERS.

*Law School:* WILLIS SMITH, WOMBLE, BELL, FRIZZELLE.

*Library:* STANBURY, HANES, LAMBETH, WEAVER.

*Medical School and Hospital:* THOMAS, MAYER, PROCTOR.

*Physical Education and Intercollegiate Athletics:* SEPARK, J. R. SMITH, PROCTOR.

*School of Religion:* PEELE, GRANT, HURLEY, MARR.



## OFFICERS OF ADMINISTRATION

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### GENERAL ADMINISTRATION

FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D. <i>President</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Vice-President in the Business Division, Secretary and Treasurer</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
BROWN, FRANK CLYDE, A.B., A.M., Ph.D. <i>Comptroller</i>	410 Buchanan Road

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### BUSINESS ADMINISTRATION

FLOWERS, ROBERT LEE, A.M., LL.D. <i>Secretary and Treasurer</i>	West Campus
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Assistant Treasurer</i>	204 Dillard Street
JORDAN, CHARLES EDWARD, A.B. <i>Assistant Secretary</i>	813 Vickers Avenue
BOY, CARL A. <i>Superintendent of Maintenance</i>	2224 Erwin Road
DOOLEY, NELL, R.N. <i>Dietitian, the Union</i>	Faculty Apartments, East Campus
GIFT, JOHN C. <i>Superintendent of Maintenance</i>	811 Fifth Street
HENRICKSEN, GERHARD CHESTER, A.B., A.M., C.P.A. <i>Auditor</i>	216 Forest Wood Drive, Forest Hills
HOOKE, MARY R., MRS. <i>Supervisor of Dormitories</i>	Powe Apartments, Buchanan Boulevard
MARTIN, LILLY SLADE, MRS. <i>Supervisor of Dormitories</i>	1506 Club Boulevard
MOORE, JOHN MEREDITH, A.B. <i>Manager, the Duke University Stores</i>	2615 Chapel Hill Boulevard
ROBERSON, HELEN, MRS. <i>Dietitian, the Union</i>	East Campus
SAWYER, OTIS, A.B. <i>Purchasing Agent, Duke University</i>	2010 Club Boulevard
SPRAGUE, GERTRUDE, MRS. <i>Dietitian, Southgate Hall</i>	Southgate Hall
THOMPSON, JAMES EDWARD <i>Manager, the Duke University Dining Halls</i>	504 East Forest Hills Boulevard



TYREE, WILLIAM ALLEN, A.B. <i>Director in the Business Division</i>	610 Buchanan Road
WEGENER, MARY E., MRS. <i>Supervisor of Dormitories</i>	Powe Apartments, Buchanan Boulevard
WHITFORD, WILLIAM EDWARD, A.B. <i>Director in the Business Division</i>	1409 N. Duke Street

## PUBLIC RELATIONS AND ALUMNI AFFAIRS

DWIRE, HENRY RUDOLPH, A.B., A.M. <i>Director of Public Relations and Alumni Affairs</i>	403 Chapel Hill Street
*ALDRIDGE, ELIZABETH, A.B. <i>Assistant Director, Alumni Affairs</i>	East Campus
DUKES, CHARLES AUBREY, A.B. <i>Assistant Director, Public Relations</i>	1403 Oakland Avenue
JACKSON, DAVID KELLY, A.B., A.M. <i>Assistant to the Editor, Duke University Press</i>	Hope Valley Road
MANN, GLENN EDWARD, A.B. <i>Manager Athletics Division, the News Service</i>	2114 Wilson Street
RIVERA, RODOLFO OSVALDO, A.B., A.M., Ph.D. <i>Executive Secretary, Duke University Press</i>	1114 Eighth Street
SIMPSON, JAMES ROBERT, A.B. <i>Director, Appointments Office</i>	Johnson Apartments, Watts Street
WILKINSON, ALBERT ALEXANDER, A.B. <i>Director, the News Service</i>	1113 Alabama Avenue

## EDUCATIONAL ADMINISTRATION

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Dean of the University and of Trinity College</i>	West Campus
BALDWIN, ALICE MARY, A.B., A.M., Ph. D. <i>Dean of the Woman's College</i>	East Campus
GREENE, WALTER KIRKLAND, A.B., A.M., Ph.D. <i>Dean of Undergraduate Instruction</i>	Myrtle Drive, West Campus
HERRING, HERBERT JAMES, A.B., A.M. <i>Dean of Men, Trinity College</i>	Myrtle Drive, West Campus
MANCHESTER, ALAN KREBS, A.B., A.M., Ph.D. <i>Dean of Freshmen, Trinity College</i>	Myrtle Drive, West Campus
SMITH, RUTH SLACK, MRS., A.B., A.M. <i>Associate Dean of Undergraduate Instruction, Woman's College</i>	Faculty Apartments, East Campus
WILSON, MARY GRACE, A.B. <i>Dean of Residence, Woman's College, Head of Brown House</i>	Brown House

\* Resigned, June 10, 1939.

- ANDERSON, ELIZABETH, A.B., A.M. 301 Erwin Apartments  
*Assistant Dean in Charge of Freshmen of the Woman's College*  
*Secretary of the Committee on Admissions of the Woman's College*
- HALL, WILLIAM HOLLAND, A.B., A.M., B.C.E., M.S.C.E. 11 Beverly Apartments  
*Dean of the College of Engineering*
- HOOVER, CALVIN BRYCE, A.B., Ph.D., Litt.D. 1702 Duke University Road  
*Dean of the Graduate School of Arts and Sciences*
- DELAPLANE, WALTER HAROLD, A.B., A.M., Ph.D. Vineyard Street,  
*Assistant to the Dean of the Graduate School* Tuscaloosa Forest
- HORACK, HUGO CLAUDE, Ph.B., LL.B., LL.D. 2021 Myrtle Drive, West Campus  
*Dean of the School of Law*
- DAVISON, WILBURT CORNELL, A.B., B.A., B.Sc., A.M., D.Sc., M.D. Hope Valley  
*Dean of the School of Medicine*
- BAKER, BESSIE, R.N., B.S. Nurses Home  
*Dean of the School of Nursing, Emeritus*
- RUSSELL, ELBERT, A.B., A.M., Ph.D. 811 Vickers Avenue  
*Dean of the School of Religion*
- GARBER, PAUL NEFF, A.B., A.M., Ph.D. West Campus  
*Registrar of the School of Religion*
- KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D. 1718 Duke University Road  
*Dean of the School of Forestry*
- HOLTON, HOLLAND, A.B., J.D. 809 Watts Street  
*Director of the Summer School*
- 
- COLEMAN, MARGARET, A.B., A.M. 918 Urban Avenue  
*Recorder, Trinity College*
- HUCKABEE, ELLEN HARRIS, A.B., A.M. Pegram House  
*Assistant Dean of Residence, Woman's College,*  
*Head of Pegram House*
- KENDALL, HELEN MILDRED, A.B. 1013 Dacian Avenue  
*Registrar, School of Law*
- SEABOLT, LOUISE, A. B., A.M. 114 Faculty Apartments, East Campus  
*Recorder, Woman's College*
- STOCKSDALE, HELEN I. Beverly Apartments  
*Recorder, School of Medicine*

### INSTRUCTIONAL STAFF

*This alphabetical list includes all members of the various faculties of the University. The date denotes the first year of service.*

- ADAMS, DONALD KEITH, (1931) A.B., M.A., Ph.D. Cornwallis Road  
*Associate Professor of Psychology*
- ADDOMS, RUTH MARGERY, (1930) B.A., M.A., Ph.D. 1003 Lamond Avenue  
*Assistant Professor of Botany*
- ALDRIDGE, FRED SOULE, (1922) A.B., A.M. East Campus  
*Assistant Professor of Mathematics*
- ALLEN, DON CAMERON, (1938) A.B., Ph.D. 1207 Alabama Avenue  
*Assistant Professor of English*

- ALTVATER, F. VERNON, (1930) A.B., A.M.  
*Associate in Hospital Administration* Route 1, Hillsboro, N. C.
- ALYEA, EDWIN PASCAL, (1930) S.B., M.D.  
*Associate Professor of Surgery in Charge of Urology* Hope Valley
- ANDERSON, CHARLES ROBERTS, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of English* 1007 Lakewood Avenue
- ANDERSON, LEWIS EDWARD, (1936) B.S., A.M., Ph.D.  
*Instructor in Botany* 2016 Myrtle Drive
- ANDERSON, WILLIAM BANKS, (1930) A.B., M.D.  
*Associate Professor of Surgery in Charge of Ophthalmology* 10 Beverly Apartments
- ARENA, JAY MORRIS, (1933) B.S., M.D.  
*Assistant Professor of Pediatrics* 1104 Virginia Avenue
- ATWOOD, THEODORE W., (1934) A.B., D.M.D.  
*Associate in Dentistry* Allenton Apartments
- \*AVILÉS, LUIS, JR., (1935) A.B., A.M., Ph.D.  
*Instructor in Romance Languages* 1114 Fifth Street
- AYCOCK, THOMAS MALCOLM, (1937) B.S., M.A.  
*Assistant Professor of Physical Education* 1404 Alabama Avenue
- BAITY, HERMAN GLENN, (1938) Sc.D.  
*Lecturer in Public Health* Chapel Hill, N. C.
- BAKER, BESSIE, (1930) B.S., R.N.  
*Dean of the School of Nursing and Professor of Nursing Education, Emeritus* Nurses Home
- BAKER, LENOX DIAL, (1937) M.D.  
*Instructor in Orthopaedics* 1435 Arcadia Street
- BAKER, ROGER DENIO, (1930) A.B., M.D.  
*Assistant Professor of Pathology* 1111 Watts Street
- BALDWIN, ALICE MARY, (1923) A.B., A.M., Ph.D.  
*Professor of History* East Campus
- BAUM, PAULL FRANKLIN, (1922) A.B., A.M., Ph.D.  
*Professor of English* 112 Pinecrest Road
- BAYLIN, GEORGE JAY, (1939) A.B., M.D.  
*Instructor in Anatomy* Duke Hospital
- BEAL, JAMES ALLEN, (1939) B.S., M.S., Ph.D.  
*Professor of Forest Entomology* Duke University
- BEARD, JOSEPH W., (1937) B.S., M.D.  
*Assistant Professor of Surgery in Charge of Experimental Surgery* 144 Pinecrest Road
- BERNHEIM, FREDERICK, (1930) A.B., Ph.D.  
*Associate Professor of Physiology and Pharmacology* Woodridge Drive, Rockwood
- BERNHEIM, MARY LILIAS CHRISTIAN, MRS., (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Biochemistry* Woodridge Drive, Rockwood
- BERRY, EDWARD WILLARD, (1936) A.B., Ph.D.  
*Associate Professor of Geology* 1003 N. Gregson Street
- BERRY, THOMAS SENIOR, (1935) S.B., M.A., Ph.D.  
*Instructor in Economics* 100 Vineyard Street
- BIGELOW, LUCIUS AURELIUS, (1929) S.B., Ph.D.  
*Associate Professor of Chemistry* 131 Pinecrest Road

\* Resigned, June 30, 1939.

- BIRD, HAROLD CRUSIUS, (1926) Ph.B., C.E.  
*Professor of Civil Engineering* 1209 Virginia Avenue
- BLACK, MARTIN LEE, JR., (1930) A.B., M.B.A., C.P.A.  
*Assistant Professor of Accounting* 135 Pinecrest Road
- BLACKBURN, WILLIAM MAXWELL, (1926) A.B., B.A., M.A.  
*Associate Professor of English* 715 Anderson Street
- BLOMQUIST, HUGO LEANDER, (1920) B.S., Ph.D.  
*Professor of Botany* 922 Demarius Street
- BOAS, RALPH PHILIP, JR., (1939) A.B., Ph.D.  
*Instructor in Mathematics* Duke University
- BOLICH, WILLIAM BRYAN, (1927) A.B., B.A. (Juris.), M.A., B.C.L.  
*Professor of Law* Hope Valley
- BONNER, LYMAN GAYLORD, (1937) A.B., Ph.D.  
*Instructor in Physics* 905 Sixth Street
- BOOKHOUT, CAZLYN GREEN, (1935) A.B., A.M., Ph.D.  
*Instructor in Zoology* 12 Bickett Apartments, Gregson Street
- BRADFORD, WILLIAM ZIEGLER, (1934) B.S., M.D.  
*Assistant Professor of Obstetrics and Gynecology and  
 Director, Outside Obstetric Service* Charlotte, N. C.
- BRADSHER, CHARLES KILGO, (1939) A.B., M.A., Ph.D.  
*Instructor in Chemistry* 1011 Lamond Avenue
- BRADWAY, JOHN SAEGER, (1931) A.B., A.M., LL.B.  
*Professor of Law* 111 Briarcliff Road
- BRANSCOMB, BENNETT HARVIE, (1925) A.B., B.A., M.A., Ph.D., Litt.D.  
*Professor of New Testament Language and Literature* Chelsea Circle, Hope Valley
- BRIDGERS, FURMAN ANDERSON, (1926) A.B., A.M.  
*Assistant Professor of Romance Languages* 1325 Arnette Avenue
- BROADHEAD, EDWARD HALL, (1933) A.B., A.M.  
*Instructor in Music* 2614 Chapel Hill Road
- BROWN, FRANCES, (1931) A.B., Ph.D.  
*Instructor in Chemistry* 205 Jones Street
- BROWN, FRANK CLYDE, (1909) A.B., A.M., Ph.D.  
*Professor of English* 410 Buchanan Road
- BROWN, HAROLD WILLIAM, (1938) A.B., M.S., Sc.D., Dr.P.H., M.D.  
*Professor of Preventive Medicine and Public Health* Chapel Hill, N. C.
- BROWNELL, WILLIAM ARTHUR, (1930) A.B., A.M., Ph.D.  
*Professor of Educational Psychology* Hope Valley
- BRUINSMA, HENRY A., (1938) B.M., M.M.  
*Instructor in Music* 1021 West Trinity Avenue
- BRYSON, THADDEUS DILLARD, (1928) LL.D.  
*Professor of Law* Hope Valley
- CALLAWAY, JASPER LAMAR, (1937) M.D.  
*Associate in Dermatology and Syphilology* 907 Second Street
- CANNON, JAMES, III, (1919) A.B., A.M., Th.B., Th.M., D.D.  
*Ivey Professor of History of Religion and Missions* Chelsea Circle, Hope Valley
- CARLITZ, LEONARD, (1932) A.B., A.M., Ph.D.  
*Associate Professor of Mathematics* 1410 Markham Avenue

- CARPENTER, DAVID WILLIAMS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Physics* 137 Pinecrest Road
- CARR, JOHN WINDER, JR., (1926) A.B., A.M., Ph.D.  
*Professor of Education* 926 Monmouth Avenue
- CARROLL, EBER MALCOLM, (1923) A.B., A.M., Ph.D.  
*Professor of History* University Apartments
- CARTER, BAYARD, (1931) A.B., B.A., M.A., M.D.  
*Professor of Obstetrics and Gynecology* Myrtle Drive, West Campus
- CATHCART, ARTHUR MARTIN, (1938) A.B.  
*Visiting Professor of Law* University Apartments
- CAVERS, DAVID FARQUHAR, (1931) B.S., LL.B.  
*Professor of Law* 414 Carolina Circle
- CHAPMAN, ROBERT G., (1936) B.S. in M.E., M.M.E.  
*Instructor in Mechanical Engineering* 1001 Watts Street
- CHILDS, BENJAMIN GUY, (1924) B.A., M.A.  
*Professor of Education* 1019 West Markham Avenue
- CLARK, KENNETH WILLIS, (1931) A.B., B.D., Ph.D.  
*Assistant Professor of New Testament Language and Literature*  
 11 Bickett Apartments, Gregson Street
- CLYDE, PAUL HIBBERT, (1937) A.B., A.M., Ph.D.  
*Associate Professor of History* 1104 Watts Street
- COILE, THEODORE STANLEY, (1935) B.S.F., M.F., Ph.D.  
*Assistant Professor of Forest Soils* Duke University
- COLE, ROBERT TAYLOR, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Political Science* 1021 Minerva Avenue
- CONANT, NORMAN FRANCIS, (1935) B.S., A.M., Ph.D.  
*Assistant Professor of Bacteriology* Tuscaloosa Forest
- CONSTANT, FRANK WOODBRIDGE, (1930) B.S., Ph.D.  
*Assistant Professor of Physics* 1607 Hermitage Court
- COOLIDGE, THOMAS BUCKINGHAM, (1935) B.A., Ph.D., M.D.  
*Associate in Biochemistry* 2414 Club Boulevard
- \*COWPER, FREDERICK AUGUSTUS GRANT, (1918) A.B., A.M., Ph.D.  
*Professor of Romance Languages* 1017 Dacian Avenue
- CRAIG, ROBERT LAWRENCE, (1938) B.A., M.D.  
*Instructor in Neuropsychiatry* Duke Hospital
- CRAVEN, ERLE BULLA, JR., (1937) A.B., M.D.  
*Instructor in Medicine* Winston-Salem, N. C.
- CRISPELL, RAYMOND, (1933) A.B., M.D.  
*Associate Professor of Neuropsychiatry* Myrtle Drive, West Campus
- CRUM, MASON, (1930) A.B., Ph.D.  
*Assistant Professor of Biblical Literature* 1308 Markham Avenue
- CULBRETH, SARAH ELIZABETH, (1938) A.B., A.M., Ph.D.  
*Instructor in Zoology* 208 Watts Street
- CUNNINGHAM, BERT, (1916) B.S., M.S., Ph.D.  
*Professor of Biology* 1200 Markham Avenue
- DANIEL, WALTER EUGENE, (1935) B.A., M.D.  
*Instructor in Urology* Duke Hospital

\* Absent on leave, second semester, 1939-1940.



- DANN, WILLIAM JOHN, (1934) B.S., Ph.D.  
*Assistant Professor of Physiology and Nutrition* 1016 Sycamore Street
- DAVIS, GIFFORD, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* 2015 Wa Wa Avenue
- DAVISON, WILBURT CORNELL, (1927) A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Professor of Pediatrics* Hope Valley
- DELAFLANE, WALTER HAROLD, (1934) A.B., A.M., Ph.D.  
*Instructor in Economics* Vineyard Street, Tuscaloosa Forest
- DE VYVER, FRANK TRAVER, (1935) A.B., A.M., Ph.D.  
*Associate Professor of Economics* 214 Swift Avenue
- DICK, MACDONALD, (1932) B.A., M.A., M.D.  
*Associate in Medicine, Physiology and Pharmacology* Hope Valley
- DOW, MARIE, MME., (1934) L. ès L., M.A.  
*Instructor (part-time) in French* 205 Forest Wood Drive
- DOW, NEAL, (1934) A.B., A.M.  
*Instructor in Romance Languages* 205 Forest Wood Drive
- \*DRESSEL, FRANCIS GEORGE, (1929) B.S., M.S., Ph.D.  
*Instructor in Mathematics* Route 1, Box 106, Durham
- DUBS, HOMER HASENPFLUG, (1937) A.B., A.M., B.D., Ph.D.  
*Acting Professor of Philosophy* 2415 Club Boulevard
- EADIE, GEORGE SHARP, (1930) M.A., M.B., Ph.D.  
*Professor of Physiology and Pharmacology* Hope Valley
- EAGLE, WATT WEEMS, (1929) A.B., M.D.  
*Associate Professor of Surgery in Charge of Otolaryngology*  
 804 Anderson Street
- EASLEY, HOWARD, (1930) A.B., M.A., Ph.D.  
*Assistant Professor of Education* Guess Road
- EDWARDS, CHARLES WILLIAM, (1898) A.B., A.M., M.S.  
*Professor of Physics* 406 Buchanan Road
- EITEMAN, WILFORD J., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 126 Pinecrest Road
- ELLIOTT, WILLIAM WHITFIELD, (1925) B.A., M.A., Ph.D.  
*Professor of Mathematics* 1404 Arnette Avenue
- ELLWOOD, CHARLES ABRAM, (1930) Ph.B., Ph.D., LL.D.  
*Professor of Sociology* Pinecrest Road
- ERICKSON, CYRUS CONRAD, (1937) B.S., B.M., M.D.  
*Instructor in Pathology* 2219 Club Boulevard
- EVERETT, JOHN WENDELL, (1932) A.B., Ph.D.  
*Assistant Professor of Anatomy* 2511 University Drive
- FARMER, WILLIAM DEMPSEY, (1935) A.B., M.D.  
*Instructor in Otolaryngology and Ophthalmology* Duke Hospital
- FERGUSON, GEORGE BURTON, (1937) M.S. (Med.), M.D.  
*Instructor in Bronchoscopy* Beverly Apartments
- FINKELSTEIN, HAROLD, (1931) B.S., M.D.  
*Assistant Professor of Surgery* Erwin Apartments
- FITZGERALD, WILLIAM STONE, (1935) A.B., A.M.  
*Instructor in English* 6 Powe Apartments, 603 Watts Street

\* Absent on leave, 1939-1940.



- FLETCHER, RICHARD VAN, (1933) B.S., M.D.  
*Instructor in Surgery* Duke Hospital
- FORBUS, WILEY DAVIS, (1929) A.B., M.D.  
*Professor of Pathology* Hope Valley
- FULLER, LON, (1931) A.B., J.D.  
*Professor of Law* Hope Valley
- GARBER, PAUL NEFF, (1924), A.B., A.M., Ph.D.  
*Professor of Church History* Myrtle Drive, West Campus
- GARDINER, ANN HENSHAW, (1930) R.N., B.S., M.S.  
*Assistant Professor of Nursing Education* Nurses Home
- GARDNER, CLARENCE ELLSWORTH, JR., (1930) A.B., M.D.  
*Associate Professor of Surgery* Hope Valley
- GATES, ARTHUR MATHEWS, (1909) A.B., A.M., Ph.D.  
*Assistant Professor of Latin* 1030 West Trinity Avenue
- GERGEN, JOHN JAY, (1936) A.B., M.A., Ph.D.  
*Associate Professor of Mathematics* 1012 West Trinity Avenue
- GIBSON, PERRY, (1937) A.B., B.S., M.S.  
*Instructor in Medical Social Service* Erwin Apartments
- GIBSON, WILLIAM MARION, (1934) A.B., A.M., Ph.D.  
*Instructor in Political Science* 2014 Wilson Street
- \*GILBERT, ALLAN, (1920) B.A., A.M., Ph.D.  
*Professor of English* 516 Carolina Circle
- GILBERT, KATHERINE EVERETT, (1930) A.B., A.M., Ph.D.  
*Professor of Philosophy* 516 Carolina Circle
- GLASSON, WILLIAM HENRY, (1902) Ph.B., Ph.D., LL.D.  
*Professor of Political Economy and Social Science* 710 Buchanan Road
- GOTAAS, HAROLD BENEDICT, (1938) B.S., M.S., S.M.  
*Instructor in Public Health* Chapel Hill, N. C.
- GOHDES, CLARENCE, (1930) A.B., A.M., Ph.D.  
*Professor of English* 1001 Lamond Avenue
- GRAVES, ROBERT WILLIAMS, (1936) B.S., M.A., M.D.  
*Associate in Neurology* Cornwallis Road
- GRAY, IRVING EMERY, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Zoology* 1411 Arcadia Street
- GREENE, WALTER KIRKLAND, (1928) A.B., A.M., Ph.D.  
*Professor of English* Myrtle Drive, West Campus
- GREENWOOD, JOSEPH, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Nation Avenue
- GROSS, PAUL MAGNUS, (1919) B.S., A.M., Ph.D.  
*William Howell Pegram Professor of Chemistry* Hope Valley
- GROUT, JULIA REBECCA, (1924) A.B., M.S.  
*Director of Physical Education, Woman's College* 205 Jones Street
- GROVES, ERNEST RUTHERFORD, (1938) A.B., B.D., Research Professor of So-  
 ciology at the University of North Carolina  
*Lecturer on Sociology, second half-year*
- HALL, FRANK GREGORY, (1926) A.B., A.M., Ph.D.  
*Professor of Zoology* 911 W. Markham Avenue

\* Absent on leave, 1939-1940.

- HALL, LOUISE, (1931) B.A., S.B. in Architecture, Brevet d'Art de la Sorbonne  
*Assistant Professor of Fine Arts* 211 Faculty Apartments
- HALL, SNOWDEN COWMAN, (1937) A.B., M.D.  
*Instructor in Medicine* Danville, Va.
- HALL, WILLIAM HOLLAND, (1915) A.B., A.M., B.C.E., M.S.C.E.  
*Professor of Engineering* 11 Beverly Apartments
- HAMBLÉN, EDWIN CROWELL, (1931) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 814 Forest Hill Road
- HAMILTON, EARL JEFFERSON, (1927) B.S., A.M., Ph.D.  
*Professor of Economics* 1015 Demarius Street
- HAMILTON, WILLIAM BASKERVILLE, JR., (1936) A.B., A.M., Ph.D.  
*Instructor in History* 410 Watts Street
- HAMLIN, GLADYS EVA, (1938) A.B., M.A.  
*Instructor in Fine Arts* 1021 Markham Avenue
- HANES, FREDERIC MOIR, (1931) A.B., A.M., M.D.  
*Florence McAlister Professor of Medicine* 2127 Myrtle Drive, West Campus
- HANSEN-PRÜSS, OSCAR CARL EDVARD, (1930) A.B., M.D.  
*Associate Professor of Medicine* 3 Surry Road, Hope Valley
- HARGITT, GEORGE THOMAS, (1930) Ph.B., A.M., Ph.D., Sc.D.  
*Professor of Zoology* 811 Watts Street
- HARRAR, ELWOOD SCOTT, (1936) B.S., M.S., Ph.D.  
*Associate Professor of Wood Technology* 1402 Alabama Avenue
- HARRIS, JEROME SYLVAN, (1936) A.B., M.D.  
*Associate in Pediatrics and Biochemistry* 1018 Demarius Street
- HART, DERYL, (1929) A.B., A.M., M.D.  
*Professor of Surgery* Duke University Road and Highway 751
- HART, HORNE LL NORRIS, (1938) A.B., M.A., Ph.D.  
*Professor of Sociology* University Apartments
- HARWELL, GEORGE CORBIN, (1935) A.B., A.M., Ph.D.  
*Instructor in English* No. 8, Aycock Apartments, Dacian Avenue
- HASBROUCK, FRANCIS MAHLON, (1935) A.B., Ph.D.  
*Assistant Professor of Romance Languages* 1005 Homer Street
- HATLEY, CHARLES CLEVELAND, (1917) A.B., A.M., Ph.D.  
*Professor of Physics* 708 Buchanan Road
- HAUSER, CHARLES ROY, (1929) B.S., M.S., Ph.D.  
*Assistant Professor of Chemistry* 1020 Rose Hill Avenue
- HAVENS, RALPH MURRAY, (1938) A.B., M.B.A.  
*Instructor in Accounting* 1809 Chapel Hill Road
- HEBB, MALCOLM HAYDEN, (1938) A.B., Ph.D.  
*Instructor in Physics* 132 Pinecrest Road
- HENDRIX, JAMES PAISLEY, (1938) B.S., M.A., M.D.  
*Associate in Medicine* Duke Hospital
- HERRING, HERBERT JAMES, (1924) A.B., A.M.  
*Assistant Professor in Speech* Myrtle Drive, West Campus
- HETHERINGTON, DUNCAN CHARTERIS, (1930) A.B., M.A., Ph.D., M.D.  
*Associate Professor of Anatomy* Hope Valley
- HICKMAN, FRANKLIN SIMPSON, (1927) A.B., S.T.B., A.M., Ph.D.  
*Professor of Preaching and the Psychology of Religion* 823 Buchanan Rd.

- HICKSON, ARTHUR OWEN, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- HILL, DOUGLAS, (1931) A.B., M.A., Ph.D.  
*Instructor in Chemistry* Dixon Road
- HITCH, JOSEPH M., (1938) A.B., M.S., M.D.  
*Instructor in Dermatology and Syphilology* Chapel Hill, N. C.
- HOBBS, MARCUS EDWIN, (1935) A.B., A.M., Ph.D.  
*Instructor in Chemistry* 10 Powe Apartments, Buchanan Boulevard
- HOLLINSHEAD, WILLIAM HENRY, (1930) B.A., M.S., Ph.D.  
*Assistant Professor of Anatomy* 1006 Urban Avenue
- HOLSCHER, EDWARD CHARLES, (1936) A.B., B.S., M.D.  
*Instructor in Orthopaedics* Duke Hospital
- HOLTON, HOLLAND, (1912) A.B., J.D.  
*Professor of the History and Science of Education* 809 Watts Street
- HOOVER, CALVIN BRYCE, (1925) A.B., Ph.D., Litt.D.  
*Professor of Economics* 1702 Duke University Road
- HORACK, HUGO CLAUDE, (1930) Ph.B., LL.B., LL.D.  
*Professor of Law* 2021 Myrtle Drive, West Campus
- HUBBELL, JAY BROADUS, (1927) A.B., A.M., Ph.D.  
*Professor of English* Pinecrest Road
- IRVING, WILLIAM HENRY, (1936) B.A., B.A. (Oxon.), M.A., Ph.D.  
*Professor of English* Legion Avenue
- JEFFERS, KATHERINE R., (1937) A.B., A.M., Ph.D.  
*Instructor in Zoology* 1507 West Pettigrew Street
- JENSEN, HOWARD EIKENBERRY, (1931) A.B., A.M., B.D., Ph.D.  
*Professor of Sociology* 143 Pinecrest Road
- JOHNSON, FRANK LOUIS, (1938) B.A., M.A., Ph.D.  
*Instructor in English* University Apartments
- JOHNSON, MYCHYLE W., (1937) A.B., Ph.D.  
*Instructor in Zoology* Vineyard Street
- JOHNSTON, CHRISTOPHER, (1930) A.B., M.D.  
*Assistant Professor of Medicine and Physiology* University Apartments
- JONES, ROBERT RANDOLPH, JR., (1930) A.B., M.D.  
*Assistant Professor of Surgery* 1105 Watts Street
- JONES, THOMAS T., (1937) A.B., M.D.  
*Instructor in Medicine* Duke Hospital
- JORDAN, ARCHIBALD CURRIE, (1925) A.B., A.M.  
*Assistant Professor of English* Pinecrest Road, Corner U. S. Highway No. 751
- JORDAN, BRADY RIMBEY, (1927) Litt.B., Ph.D.  
*Professor of Romance Languages* 117 Pinecrest Road
- JOYNER, GEORGE W., (1932) B.S., M.D.  
*Instructor in Surgery* Asheboro, N. C.
- KEECH, JAMES MAYNARD, (1931) A.B., A.M., Ph.D.  
*Instructor in Economics* Vineyard Street
- KEMP, MALCOLM D., (1937) M.D.  
*Instructor in Psychiatry* Pine Bluff, N. C.
- KEMPNER, WALTER, (1934) M.D.  
*Associate in Medicine* Washington Duke Hotel

- KOHN, HENRY IRVING, (1937) A.B., Ph.D.  
*Instructor in Physiology and Pharmacology* 208 Buchanan Boulevard
- KORSTIAN, CLARENCE FERDINAND, (1930) B.S.F., M.F., M.A., Ph.D.  
*Professor of Silviculture* 1718 Duke University Road
- KRAMER, PAUL JACKSON, (1931) A.B., M.Sc., Ph.D.  
*Associate Professor of Botany* 922 Urban Avenue
- KRAYBILL, EDWARD K., (1939) B.S. in C.E.  
*Instructor in Electrical Engineering*
- KRUMMEL, CHARLES ALBERT, (1922) Ph.B., Ph.M., Ph.D.  
*Professor of German* 2118 Englewood Avenue
- LONDON, CHARLES EDWARD, (1926) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 1001 West Trinity Avenue
- LANNING, JOHN TATE, (1927) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- LAPRADE, WILLIAM THOMAS, (1909) A.B., Ph.D.  
*Professor of History* 1108 Monmouth Avenue
- LATTY, ELVIN REMUS, (1937) B.S., J.D., J.Sc.D.  
*Professor of Law* 2016 Wilson Street
- LEIBY, GEORGE M., (1938) M.P.H., Dr.P.H., M.D.  
*Instructor in Syphilology* Chapel Hill, N. C.
- LEMERT, BEN FRANKLIN, (1930) B.Sc. in Bus. Admin., M.A., Ph.D.  
*Assistant Professor of Economic Geography* 123 Pinecrest Road
- LEONARD, HENRY SIGGINS, (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Philosophy* 107 Pinecrest Road
- LESTER, DAVID WASHINGTON, (1939) M.D.  
*Instructor in Neuropsychiatry* Duke Hospital
- LEWIS, LEROY, (1935) A.B., A.M.  
*Instructor in Speech* 640 Club Boulevard
- LINEBARGER, PAUL MYRON ANTHONY, (1937) A.B., M.A., Ph.D.  
*Assistant Professor of Political Science* 1306 B Street
- LONDON, ARTHUR HILL, JR., (1932) B.S., M.D.  
*Instructor in Pediatrics* 502 Morehead Avenue
- LONDON, FRITZ, (1938) Ph.D.  
*Professor of Theoretical Chemistry* Duke University
- LOWNDES, CHARLES LUCIEN BAKER, (1934) A.B., LL.B., S.J.D.  
*Professor of Law* 2016 Club Boulevard
- LUNDEBERG, OLAV, (1931) A.B., A.M., Ph.D.  
*Associate Professor of Romance Languages* 127 Pinecrest Road
- LUNDHOLM, HELGE, (1930) Fil. Kand., Fil. Lic., Ph.D.  
*Professor of Psychology* 803 Second Street
- \*MABRY, WILLIAM ALEXANDER, (1930) A.B., A.M., Ph.D.  
*Instructor in History* 703 Club Boulevard
- McBRYDE, ANGUS, (1931) B.S., M.D.  
*Assistant Professor of Pediatrics* 1007 Homer Street
- McCAIN, PAUL PRESSLY, (1933) A.B., M.D.  
*Assistant Professor of Medicine* Southern Pines, N. C.
- MACCARDLE, ROSS CLAYTON, (1937) B.S., Ph.D.  
*Instructor in Anatomy* 814 Forest Hills Boulevard

\* Resigned, June 30, 1939.

- \*McCLOY, SHELBY THOMAS, (1927) A.B., M.A., B.A., B.Litt., Ph.D.  
*Instructor in History* 1208 Arnette Avenue
- McCREA, FORREST DRAPER, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Physiology and Pharmacology* 1023 Demarius Street
- McDERMOTT, MALCOLM, (1930) A.B., LL.B.  
*Professor of Law* East Campus
- McDONALD, ALEXANDER DONALD, (1936) A.B., M.F.A.  
*Assistant Professor of Fine Arts* University Apartments
- \*\*McDOUGALL, WILLIAM, (1927) B.A., M.A., M.B., D.Sc., Litt.D.  
*Professor of Psychology* 303 Faculty Apartments, East Campus
- McLARTY, FURMAN GORDON, (1933) A.B., B.A., A.M., Ph.D.  
*Instructor in Philosophy* Hillsboro, N. C.
- \*\*\*MAGGS, DOUGLAS BLOUNT, (1930) A.B., J.D., S.J.D.  
*Professor of Law* Hope Valley
- MANCHESTER, ALAN KREBS, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of History* Myrtle Drive, West Campus
- MANNING, ISAAC HALL, JR., (1937) A.B., M.D.  
*Instructor in Medicine* Duke Hospital
- MARTIN, DONALD STOVER, (1932) A.B., M.D.  
*Associate Professor of Bacteriology and Associate in Medicine*  
 2609 Chapel Hill Boulevard
- MARTIN, ELSIE WILSON, MRS., (1930) A.B., M.S.  
*Professor of Dietetics* 206 Faculty Apartments, East Campus
- MARX, WALTER, (1937) M.A., Ph.D.  
*Research Associate in Surgery and Biochemistry* 905 Sixth Street
- MAUGHAN, WILLIAM, (1931) B.S., M.F.  
*Associate Professor of Forest Management* 5 Sylvan Road
- MAXWELL, WILLIAM CARY, (1930) A.B., A.M., Ph.D.  
*Assistant Professor of German* 142 Pinecrest Road
- \*\*\*\*MAYFIELD, MARIE MARCIA, (1935), B.A., Brevet d'Art de la Sorbonne  
*Instructor in Fine Arts* 406 Buchanan Boulevard
- MEIER, OTTO, JR., (1934) B.S. in E.E., E.E.  
*Assistant Professor of Electrical Engineering* 916 Monmouth Avenue
- MILES, EDWARD ROY CECIL, (1929) B.S., M.A., Ph.D.  
*Assistant Professor of Mathematics* 1028 Gloria Avenue
- MITCHELL, FRANK KIRBY, (1926) A.B., A.M.  
*Associate Professor of English* East Campus
- MORGAN, GEORGE ALLEN, JR., (1936) Ph.B., A.M., Ph.D.  
*Associate Professor of Philosophy* 1210 Vickers Avenue
- MORGAN, JASPER EUGENE, (1936) B.S., A.M., Ph.D.  
*Instructor in Roentgenology and Physiology* 622 Swift Avenue
- MOUZON, JAMES CARLISLE, (1932) B.A., Ph.D.  
*Assistant Professor of Physics* 132 Pinecrest Road
- MUENZINGER, KARL F., (1939) A.B., Ph.D.  
*Visiting Professor of Psychology* Duke University

\* Absent on leave, 1939-1940.

\*\* Deceased, November 28, 1938.

\*\*\* Absent on leave, 1938-1939.

\*\*\*\* Resigned, August 31, 1938.



- MULLER, MARY HOEN, (1930) R.N., Anes.  
*Instructor in Anesthesia* Duke Hospital
- MUNYAN, MERRILL CALVIN, (1934) A.B.  
*Instructor in History* East Campus
- MYERS, HIRAM EARL, (1926) A.B., S.T.B., S.T.M.  
*Professor of Biblical Literature* 141 Pinecrest Road
- \*NELSON, ERNEST WILLIAM, (1926) A.B., A.M., Ph.D.  
*Associate Professor of History* Hope Valley
- NEURATH, HANS, (1938) Ph.D.  
*Assistant Professor of Biochemistry* Manchester Apartments
- NICHOLSON, WILLIAM MCNEAL, (1935) A.B., M.D.  
*Associate in Medicine and Biochemistry* 1502 Florida Avenue
- NIELSEN, WALTER MCKINLEY, (1925) B.S. in E.E., Ph.D.  
*Professor of Physics* 139 Pinecrest Road
- NORDHEIM, LOTHAR WOLFGANG, (1937) Ph.D.  
*Professor of Physics* 904 Buchanan Road
- NORTON, J. W. ROY, (1938) A.B., M.P.H., M.D.  
*Lecturer in Preventive Medicine and Public Health* Chapel Hill, N. C.
- \*\*OLIVER, HENRY MADISON, (1937) A.B., A.M., Ph.D.  
*Instructor in Economics* 1114 Eighth Street
- OOSTING, HENRY JOHN, (1932) A.B., M.S., Ph.D.  
*Assistant Professor of Botany* 2528 University Drive, Rockwood
- ORGAIN, EDWARD STEWART, (1934) M.D.  
*Associate in Medicine* 116 Faculty Apartments
- ORMOND, JESSE MARVIN, (1923) A.B., B.D., D.D.  
*Professor of Practical Theology* 301 Watts Street
- OUTLER, ALBERT C., (1938) A.B., A.M., B.D., Ph.D.  
*Assistant Professor of Historical Theology* 1003 Lamond Avenue
- PARSONS, PHILIP BROWER, (1936) B.S., M.D.  
*Instructor in Radiology* Duke Hospital
- PARKER, HAROLD TALBOT, (1939) A.B., Ph.D.  
*Instructor in History* Duke University
- PATTERSON, KARL BACHMAN, (1920) A.B., A.M.  
*Assistant Professor of Mathematics* 1024 Monmouth Avenue
- \*\*\*PATTON, LEWIS, (1926) A.B., Ph.D.  
*Associate Professor of English* 1511 W. Pettigrew Street
- PEARSE, ARTHUR SPERRY, (1926) B.S., A.M., Ph.D.  
*Professor of Zoology* Chelsea Circle, Hope Valley
- PEPPLER, CHARLES WILLIAM, (1912) A.B., Ph.D.  
*Professor of Greek* 406 Buchanan Road
- PERLZWEIG, WILLIAM ALEXANDER, (1929) B.S., A.M., Ph.D.  
*Professor of Biochemistry* Hope Valley
- PERRY, HAROLD SANFORD, (1932) A.B., Ph.D.  
*Assistant Professor of Botany* 1222 Sixth Street
- PERSONS, ELBERT LAPSLEY, (1930) A.B., M.D.  
*Associate in Medicine and Dermatology* 723 Anderson Street

\* Absent on leave, 1939-1940.

\*\* Resigned, June 30, 1939.

\*\*\* Absent on leave, second semester, 1939-1940.



- PETRY, RAY C., (1937) A.B., A.M., Ph.D.  
*Assistant Professor of Church History* Pinecrest Road
- PIGAGE, LEO CHARLES, (1938) B.S., M.M.E.  
*Instructor in Mechanical Engineering* 1007 Markham Avenue
- PLUMMER, DAVID EDWIN, (1938) M.D.  
*Instructor in Syphilology* Duke Hospital
- POSTON, MARY ALVERTA, (1930)  
*Instructor in Bacteriology* 512 Watts Street
- POTEAT, JAMES DOUGLASS, (1936) A.B., LL.B., J.S.D.  
*Professor of Law* 1015 Dacian Avenue
- POTEAT, MARY, (1935) A.B., A.M., Ph.D.  
*Instructor in English* 103 Faculty Apartments
- PRATT, JOSEPH GAITHER, (1937) A.B., A.M., Ph.D.  
*Instructor in Psychology* Nation Avenue
- PROCTOR, ARTHUR MARCUS, (1923) A.B., A.M., Ph.D.  
*Professor of Education* Myrtle Drive, West Campus
- QUYNN, DOROTHY MACKAY, MRS., (1930) A.B., A.M., Docteur de l'Université  
 de Paris  
*Assistant Professor of History* Woodridge Drive, Rockwood
- QUYNN, WILLIAM ROGERS, (1930) B.A., M.A., Ph.D.  
*Assistant Professor of Romance Languages* Woodridge Drive, Rockwood
- RANEY, RICHARD BEVERLY, (1934) A.B., M.D.  
*Instructor in Orthopaedics* Bland Apartments
- RANKIN, ROBERT STANLEY, (1927) A.B., A.M., Ph.D.  
*Professor of Political Science* Manchester Apartments
- RANKIN, WATSON SMITH, (1930) M.D.  
*Lecturer in Preventive Medicine and Public Health* Charlotte, N. C.
- RANKIN, WILLIAM WALTER, JR., (1926) B.E., M.A.  
*Professor of Mathematics* 1011 Gloria Avenue
- \*RANSON, RUSSELL, (1934) B.S.  
*Instructor in Electrical Engineering* 814 Vickers Avenue
- RATCHFORD, BENJAMIN ULYSSES, (1928) B.S., A.M., Ph.D.  
*Assistant Professor of Economics* 2030 Englewood Avenue
- RAYMOND, MARY LOIS, (1931) A.B., M.A.  
*Instructor in Romance Languages* 1003 Lamond Avenue
- REAMER, I. THOMAS, (1931) Ph.G.  
*Instructor in Pharmacy* Duke Hospital
- REED, FREDERICK JEROME, (1935) M.E., M.S.  
*Assistant Professor of Mechanical Engineering* 2203 Englewood Avenue
- REEVES, ROBERT JAMES, (1930) A.B., M.D.  
*Associate Professor of Roentgenology* 1010 Monmouth Avenue
- REID, JOHN TURNER, (1939) A.B., A.M., Ph.D.  
*Assistant Professor of Romance Languages* Duke University
- RHINE, JOSEPH BANKS, (1927) B.S., M.S., Ph.D.  
*Professor of Psychology* 908 W. Club Boulevard
- RICHARDSON, WILLIAM P., (1938) B.S., M.P.H., M.D.  
*Instructor in Preventive Medicine and Public Health* Chapel Hill, N. C.

\* Resigned, June 4, 1939.

- ROBERT, JOSEPH CLARKE, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* 917 Englewood Avenue
- ROBERTS, JOHN H., (1931) A.B., Ph.D.  
*Assistant Professor of Mathematics* Legion Avenue, Tuscaloosa Forest
- ROBERTS, LOUIS CARROLL, (1933) B.S., M.D.  
*Instructor in Urology* Duke Hospital
- ROGERS, ROBERT S., (1937) A.B., A.M., Ph.D.  
*Professor of Latin* 1008 W. Trinity Avenue
- ROPP, THEODORE, (1938) A.B., A.M., Ph.D.  
*Instructor in History* 1009 Lakewood Avenue
- ROSBOROUGH, RUSKIN RAYMOND, (1925) A.B., A.M., Ph.D., Docteur en  
 philologie classique, Louvain  
*Professor of Latin* 410 Watts Street
- ROSE, JESSE LEE, (1936) A.B., M.A., Ph.D.  
*Instructor in Latin* No. 5, Powe Apartments, 603 Watts Street
- ROSENAU, MILTON JOSEPH, (1938) M.D.  
*Lecturer in Preventive Medicine and Public Health* Chapel Hill, N. C.
- ROSS, NORMAN F., (1937) D.D.S.  
*Instructor in Dentistry* 1021 Dacian Avenue
- ROSS, ROBERT ALEXANDER, (1930) B.S., M.D.  
*Associate Professor of Obstetrics and Gynecology* 818 Anderson Street
- ROWE, GILBERT THEODORE, (1928) A.B., S.T.D., D.D., Litt.D.  
*Professor of Christian Doctrine* 150 Pinecrest Road
- RUFFIN, JULIAN MEADE, (1930) B.A., M.A., M.D.  
*Associate Professor of Medicine* 816 Anderson Street
- RUSSELL, ELBERT, (1926) A.B., A.M., Ph.D.  
*Professor of Biblical Interpretation* 811 Vickers Avenue
- SANDERS, C. RICHARD, (1937) B.Ph., M.A., Ph.D.  
*Assistant Professor of English* 1315 Vickers Avenue
- SANDERS, PAUL HAMPTON, (1936) A.B., LL.B.  
*Assistant Professor of Law* 1603 Duke University Road
- SAYLOR, JOHN HENRY, (1928) A.B., A.M., Ph.D.  
*Assistant Professor of Chemistry* 1604 B Street
- SCATES, DOUGLAS EDGAR, (1939) A.B., Ph.D.  
*Associate Professor of Education* Duke University
- SCHIEBEL, HERMAN MAX, (1933) A.B., M.D.  
*Instructor in Surgery* Duke Hospital
- SCHUMACHER, FRANCIS X., (1937) B.S.  
*Professor of Forestry* 6 Sylvan Road
- SEELEY, WALTER JAMES, (1925) E.E., M.S.  
*Professor of Electrical Engineering* 1005 Urban Avenue
- SEITZ, GIFFORD DE ALTON, (1934) B.A., M.D.  
*Instructor in Obstetrics and Gynecology* Duke Hospital
- \*SHANDS, ALFRED RIVES, JR., (1930) B.A., M.D.  
*Associate Professor of Surgery in Charge of Orthopaedics* 812 Anderson Street
- SHEARS, LAMBERT ARMOUR, (1927) A.B., A.M., Ph.D.  
*Instructor in German* 917 Green Street

\* On leave, 1937—.

- SHIELDS, JOHN HERMAN, (1926) A.B., A.M.  
*Assistant Professor of Accounting* 602 W. Chapel Hill Street
- SHIPMAN, GEORGE A., (1938) A.B., Ph.D.  
*Associate Professor of Political Science* 2032 Club Boulevard
- SIMPSON, WILLIAM HAYS, (1930) A.B., A.M., Ph.D.  
*Instructor in Political Science* 1408 Dollar Avenue
- SMITH, DAVID TILLERSON, (1930) A.B., M.D.  
*Professor of Bacteriology and Associate Professor of Medicine* Hope Valley
- SMITH, HILRIE SHELTON, (1931) A.B., Ph.D., D.D.  
*Professor of Christian Ethics and Religious Education* 1523 Hermitage Court
- SMITH, O. NORRIS, (1937) B.A., M.D.  
*Instructor in Medicine* Greensboro, N. C.
- SMITH, ROBERT SIDNEY, (1932) A.B., A.M., Ph.D.  
*Assistant Professor of Economics* 2204 Wilson Street
- SMITH, RUTH SLACK, MRS., (1927) A.B., A.M.  
*Instructor in Education* 115 Faculty Apartments, East Campus
- SMITH, SUSAN GOWER, MRS., (1930) A.B., M.A.  
*Associate in Medicine* Hope Valley
- SNIVELY, MARY HELEN, (1930) R.N., Anes.  
*Instructor in Anesthesia* 606 Buchanan Road
- SPENCE, BESSIE WHITTED, MRS., (1929) A.B., A.M., B.D.  
*Instructor in Biblical Literature* Hope Valley
- SPENCE, HERSEY EVERETT, (1918) A.B., A.M., B.D., D.D.  
*Professor of Biblical Literature and Religious Education* Hope Valley
- SPENGLER, JOSEPH JOHN, (1934) A.B., M.A., Ph.D.  
*Professor of Economics* 1601 Lakewood Avenue
- SPONER, HERTHA, (1935) Ph.D.  
*Professor of Physics* 813 Second Street
- SPRINGER, JOHN YOUNG, (1936) A.B., M.B.A.  
*Assistant Professor of Economics* 907 Second Street
- SPRUNT, DOUGLAS HAMILTON, (1932) B.S., M.S., M.D.  
*Associate Professor of Pathology* Hope Valley
- STILL, BAYRD, (1938) A.B., A.M., Ph.D.  
*Assistant Professor of History* 909 N. Gregson Street
- STINESPRING, WILLIAM FRANKLIN, (1936) B.A., M.A., Ph.D.  
*Assistant Professor of Old Testament* 1107 Urban Avenue
- SUGDEN, HERBERT WILFRED, (1929) A.B., A.M., Ph.D.  
*Assistant Professor of English* University Apartments
- SUNDERLAND, ELIZABETH READ, (1939) A.B., A.M., Ph.D.  
*Instructor in Fine Arts* University Apartments
- SWETT, FRANCIS HUNTINGTON, (1929) A.B., M.A., Ph.D.  
*Professor of Anatomy* Hope Valley
- SYDNOR, CHARLES SACKETT, (1936) A.B., Ph.D.  
*Professor of History* 116 Pinecrest Road
- TAYLOR, HAYWOOD MAURICE, (1930) B.S., M.S., Ph.D.  
*Associate Professor of Biochemistry and Toxicology* University Drive, Rockwood
- THEISS, ERNEST S., (1939) B.S. in M.E., M.S.  
*Instructor in Mechanical Engineering*

- THOMAS, JOSEPH MILLER, (1930) A.B., Ph.D.  
*Professor of Mathematics* University Apartments
- THOMAS, WALTER LEE, JR., (1937) A.B., M.A., M.D.  
*Assistant Professor of Obstetrics and Gynecology* Erwin Apartments
- THOMPSON, EDGAR T., (1935) A.B., A.M., Ph.D.  
*Assistant Professor of Sociology* Pinecrest Road
- THOMSON, ROY BERTRAND, (1938) B.S., M.F., Ph.D.  
*Associate Professor of Forest Economics* University Apartments
- TRUESDALE, JAMES N., (1930) A.B., A.M., Ph.D.  
*Instructor in Greek* Duke University
- TUCKER, GORDON H., (1939) B.S., M.S., Ph.D.  
*Instructor in Zoology*
- VAIL, CHARLES ROWE, (1939) B.S. in E.E.  
*Instructor in Electrical Engineering* College Station
- VANCE, MARY HENDREN, MRS., (1926) A.B., A.M.  
*Assistant Professor of English* 208 Watts Street
- VOLLMER, CLEMENT, (1926) A.B., A.M., Ph.D.  
*Professor of German* 2114 Myrtle Drive, West Campus
- VON BECKERATH, HERBERT, (1935) Ph.D.  
*Professor of Economics and Political Science* Hope Valley
- VOSBURGH, WARREN CHASE, (1928) B.S., M.S., Ph.D.  
*Professor of Chemistry* 2319 Englewood Avenue
- \*VOYLES, CARL, (1931) B.S.  
*Assistant Director of Physical Education, Trinity College* 2307 Club Boulevard
- WACKERMAN, ALBERT EDWARD, (1938) B.S., M.F.  
*Professor of Forest Utilization* 110 Forest Wood Drive
- WADE, WALLACE, (1931) A.B.  
*Director of Physical Education, Trinity College* Myrtle Drive, West Campus
- WALLACE, WILLIAM STUART, (1938) A.B., M.D.  
*Instructor in Radiology* Duke Hospital
- WALTON, LORING BAKER, (1929) A.B., Lic. ès L.  
*Associate Professor of Romance Languages* 1012 Green Street
- WANNAMAKER, WILLIAM HANE, (1904) A.B., A.M., Litt.D.  
*Professor of German* Myrtle Drive, West Campus
- WARD, CHARLES EUGENE, (1927) A.B., A.M., Ph.D.  
*Assistant Professor of English* 110 Pinecrest Road
- WATSON, JOHN D., (1939) A.B., S.B. in C.E., S.M. in C.E.  
*Assistant Professor of Civil Engineering*
- WATSON, KARL BRANTLEY, (1936) B.S., A.B., A.M., Ph.D.  
*Instructor in Education* 2204 Englewood Avenue
- WATSON, RICHARD L., JR., (1939) A.B., Ph.D.  
*Instructor in History*
- WAY, VERNON ELGIN, (1930) A.B., A.M., M.A.  
*Assistant Professor of Greek* 909 Gregson Street
- WEBB, ALBERT MICAJAH, (1903) A.B., A.M.  
*Professor of Romance Languages* 1017 Trinity Avenue
- WELFLING, WELDON, (1936) A.B., A.M., Ph.D.  
*Instructor in Economics* Corner Vineyard Street and Legion Avenue

\* Resigned, January 15, 1939.

- WEST, ALFRED THURBER, (1930) B.S., A.M.  
*Assistant Professor of English* 1001 Lamond Avenue
- WHARTON, GEORGE WILLARD, JR., (1939) B.S., Ph.D.  
*Instructor in Zoology*
- WHITE, MARIE ANNE, MRS., (1930) A.B., A.M.  
*Assistant Professor of English* Chelsea Circle, Hope Valley
- WHITE, NEWMAN IVEY, (1919) A.B., A.M., Ph.D.  
*Professor of English* Chelsea Circle, Hope Valley
- WIDGERY, ALBAN GREGORY, (1930) B.A., M.A.  
*Professor of Philosophy* St. Catherine, Pinecrest Road
- WILBUR, RALPH SYDNEY, (1933) B.S. in M.E., M.E.  
*Professor of Mechanical Engineering* 1317 Arnette Avenue
- WILLIAMS, JAMES WESLEY, (1937) A.B., B.S.  
*Instructor in Civil Engineering* Southgate Dormitory
- WILSON, FREDERICK ELIPHAZ, (1923) A.B., A.M.  
*Assistant Professor of German* 918 Lamond Avenue
- WILSON, ROBERT NORTH, (1910) A.B., M.S.  
*Professor of Chemistry* 822 Third Street
- \*WILSON, ROBERT RENBERT, (1925) A.B., A.M., Ph.D.  
*Professor of Political Science* 717 Anderson Street
- WOLF, FREDERICK ADOLPHUS, (1927) A.B., A.M., Ph.D.  
*Professor of Botany* 924 Urban Avenue
- WOODHALL, BARNES, (1937) B.A., M.D.  
*Assistant Professor of Surgery in Charge of Neuro-surgery* Pinecrest Road
- WOODY, ROBERT HILLIARD, (1929) Ph.B., A.M., Ph.D.  
*Assistant Professor of History* 2534 University Drive
- YATES, ANNE, (1933) A.B., A.M., Ph.D.  
*Assistant Professor of Biochemistry* Cornwallis Road
- YOUNG, EDWARD HUDSON, (1923) A.B., A.M.  
*Assistant Professor of Romance Languages* 13 Beverly Apartments
- YOUNG, PAUL G., (1937) B.Ph., A.M.  
*Instructor in German* 1306 N. Mangum Street
- YOUNGSTROM, KARL A., (1937) A.B., M.A., Ph.D.  
*Instructor in Anatomy* 1910 University Drive
- ZENER, KARL EDWARD, (1928) Ph.B., A.M., Ph.D.  
*Associate Professor of Psychology* 416 Carolina Circle
- 
- BAKER, ELEANOR USSHER, (1930) A.B.  
*Instructor in English in School of Nursing* Duke Hospital
- BATCHELDER, MARION FRANCIS, (1930) R.N.  
*Instructor in Nursing Administration and Supervision* Duke Hospital
- \*\*BURTT, EVERETT JOHNSON, JR., (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 515 South Duke Street
- CARPENTER, JAMES M., (1938) Ph.D.  
*Instructor (Part-time) in English* 406 Buchanan Boulevard
- CHAFFIN, NORA CAMPBELL, (1936) A.B., A.M.  
*Instructor (Part-time) in History* Bassett House

\* Absent on leave, second semester, 1939-1940.

\*\* Resigned, February 1, 1939.



- EICHER, CHESTER FRANKLIN, (1938) A.B., B.S. in Ed., B.D., A.M.  
*Instructor (Part-time) in Education* 809 Third Street
- EPPERSON, JESSE HARRISON, (1930) B.S.  
*Instructor in Preventive Medicine and Public Health* Duke Hospital
- FERGUSON, ARTHUR BOWLES, (1939) A.B.  
*Instructor (Part-time) in History* Duke University
- \*HARGREAVES, HERBERT WALTER, (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 916 Markham Avenue
- HINVES, EDITH, (1934) R.N.  
*Instructor in Nursing Supervision* Nurses Home
- MACCOLL, SYLVIA HAZELTON, (1938) A.B., M.A., Ph.D.  
*Instructor (Part-time) in Psychology* Vineyard and Legion Streets
- MARTIN, ABRAM VENABLE, JR., (1939) A.B.  
*Instructor (Part-time) in Mathematics* 1004 Minerva Avenue
- MARTIN, WILLARD EDGAR, JR., (1937) A.B., A.M.  
*Instructor (Part-time) in English* 812 Wilkerson Avenue
- \*O'LEARY, JAMES JOHN, (1938) A.B., A.M.  
*Instructor (Part-time) in Economics* 201 House Q, West Campus
- SINGER, ARMAND E., (1938) A.B.  
*Instructor (Part-time) in French* 1013 Lamond Avenue

## INDUSTRIAL RESEARCH ASSOCIATES

- DARKIS, FREDERICK RANDOLPH Chemistry 1211 Alabama Avenue  
 B.S., M.S., Ph.D., University of Maryland
- MCLEAN, RUTH Chemistry 12 Glenn Apartments  
 A.B., Woman's College of the University of North Carolina; A.M., Duke University

## INSTRUCTIONAL ASSISTANTS

- ARNETT, EUGENE WILLARD, JR., (1938) M.D.  
*Assistant in Student Health* Duke Hospital
- ARNOLD, RALPH A., (1936) B.A., M.D.  
*Assistant in Otolaryngology and Ophthalmology* Duke Hospital
- BRIDGERS, WILLIAM HENRY, (1936) B.S., M.D.  
*Assistant in Surgery* Duke Hospital
- BRYAN, W. RAY, (1938) B.S., Ph.D.  
*Research Associate in Experimental Surgery* Duke Hospital
- BRYSON, EDWIN CONSTANT, (1931)  
*Assistant in Legal Aid Clinic* 1023 Sycamore Street
- CUYLER, W. KENNETH, (1938) B.A., M.A.  
*Research Fellow in Endocrinology* Duke Hospital
- DUNLAP, ERNEST BRINDLEY, JR., (1938) A.B.  
*Assistant in Anatomy* Duke Hospital
- EASLEY, ELEANOR BEAMER, (1934) B.A., M.A., M.D.  
*Assistant in Obstetrics and Gynecology* Duke Hospital
- FERRO, MARIA, (1939) A.B., M.A.  
*Assistant in Medical Social Service* Duke Hospital
- FRITZ, MILO, (1936) A.B., M.D.  
*Assistant in Otolaryngology and Ophthalmology* Duke Hospital

\* Second semester only.



GOODMAN, ELIZA DOROTHY, (1934) R.N., Anes. <i>Assistant in Anesthesia</i>	407 Cook Street
GUNTER, JUNE U., (1938) A.B., M.D. <i>Assistant in Pathology</i>	Duke Hospital
HAMM, ALMA SMITH, (1937) R.N., Anes. <i>Assistant in Anesthesia</i>	409 Cook Street
HARRELL, GEORGE THOMAS, JR., (1938) B.A., M.D. <i>Assistant in Medicine</i>	Duke Hospital
HARRIS, LEO CLAY, JR., (1938) M.D. <i>Assistant in Surgery</i>	Duke Hospital
HARVEY, HAROLD IRA, (1937) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
HURT, FLOYD KINZER, (1938) M.D. <i>Assistant in Radiology</i>	Duke Hospital
KAUFMAN, WILLIAM HENRY, (1937) B.A., M.D. <i>Assistant in Medicine</i>	Duke Hospital
KLEIN, JAMES RAYMOND, (1930) A.B., Ph.D. <i>Assistant in Biochemistry</i>	Duke Hospital
KNIGHT, ALTON J., (1938) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	1404 North Duke Street
LEVY, EDWARD DAVID, (1938) A.B. <i>Assistant in Biochemistry</i>	Duke Hospital
LIGHTNER, CLARENCE MCGRAW, (1937) A.B., M.D. <i>Research Assistant in Pathology</i>	Duke Hospital
LOVELL, DURWARD LEE, (1937) M.D. <i>Assistant in Surgery</i>	Duke Hospital
MACCOLL, WILLIAM ALEXANDER, (1938) B.A., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
MARTIN, DAVID WILLIAM, (1938) B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
MASON, MARY LOCHER, MRS., (1931) Diploma in Fine Arts, Teachers College, Columbia University <i>Assistant in Education</i>	Route No. 2, Durham, N. C.
MILLER, CHARLES HENDERSON, (1934) A.B., LL.B. <i>Assistant in Legal Aid Clinic</i>	2208 Woodrow Street
MORTON, HENRY GEORGE, (1938) B.S., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
MOSELEY, VINCE, (1937) A.B., M.D. <i>Assistant in Medicine</i>	Duke Hospital
PETTUS, WILLIAM HENRY, JR., (1937) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
PHILLIPSON, ELMA O., (1938) A.B., M.A. <i>Assistant in Medical Social Service</i>	208 Buchanan Road
PLATT, LOUIS, (1938) A.B., M.D. <i>Assistant in Pediatrics</i>	Duke Hospital
POSTLETHWAIT, RAYMOND WOODROW, (1937) B.S., M.D. <i>Assistant in Medicine</i>	Duke Hospital
REISER, RAYMOND, (1936) A.B., Ph.D. <i>Fellow in Medicine</i>	Duke Hospital

RICKETTS, EDWIN TYSON, (1938) B.S., M.D. <i>Assistant in Biochemistry</i>	Duke Hospital
RUCKER, EDWIN MACRAE, (1934) A.B., M.D. <i>Assistant in Obstetrics and Gynecology</i>	Duke Hospital
SCHLAYER, CLOTILDE, (1937) M.D. <i>Research Assistant in Medicine</i>	Duke Hospital
SCHULZE, WILLIAM, (1936) B.S., M.D. <i>Assistant in Medicine</i>	Duke Hospital
SEALY, WILL CAMP, (1936) B.S., M.D. <i>Assistant in Surgery</i>	Duke Hospital
SMITH, PRESTON, (1932) <i>Assistant in Clinical Microscopy</i>	114 E. Seeman Street
STEVENS, JOSEPH BLACKBURN, (1936) B.S., M.D. <i>Assistant in Medicine</i>	Duke Hospital
STUART, CHRISTOPHER, JR., (1936) M.D. <i>Assistant in Surgery</i>	Duke Hospital
STUBBS, ALSTON, (1935) A.B., LL.B., LL.M. <i>Assistant in Legal Aid Clinic</i>	University Apartments
THOMAS, JUNE B., (1937) A.B., M.D. <i>Assistant in Student Health</i>	Duke Hospital
UPCHURCH, SAMUEL EARLE, (1933) B.A., M.D. <i>Assistant in Surgery</i>	Duke Hospital
WATERS, CHESTER H., JR., (1938) B.A., M.D. <i>Assistant in Orthopaedics</i>	Duke Hospital
WILLIAMS, ROBERT, (1936) A.B., M.D. <i>Assistant in Radiology</i>	Duke Hospital
WISE, NANCY BOWMAN, (1937) A.B., M.D. <i>Research Fellow in Medicine and Bacteriology</i>	Duke Hospital

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
TRINITY COLLEGE

CALDWELL, HERSCHEL, (1930) <i>Instructor in Physical Education; Coach of Freshman Sports</i>	920 Buchanan Boulevard
CAMERON, EDMUND McCULLOUGH, (1926) A.B. <i>Instructor in Physical Education; Head Coach of Varsity Basketball; Assistant Coach of Football</i>	Hope Valley
CARD, WILBUR WADE, (1902) A.B. <i>Instructor in Physical Education</i>	1110 Minerva Avenue
COOMBS, JOHN WESLEY, (1929) B.S. <i>Instructor in Physical Education; Head Coach of Varsity Baseball</i>	101 House DD, Craven Quadrangle
CHAMBERS, ROBERT LUTHER, (1933) B.S. in Ed. <i>Instructor in Physical Education; Head Coach of Varsity Track</i>	Powe Apartments
CRICHTON, MARSHALL, (1931) <i>Instructor in Golf</i>	Hope Valley
DEAN, DAYTON ROBERT, (1931) A.B. <i>Business Manager of Athletics</i>	University Apartments

- FOGLEMEN, WILLIAM HARRY, (1935)  
*Instructor in Physical Education; Coach of Tennis* University Apartments
- GERARD, KENNETH, (1931) B.S.  
*Instructor in Physical Education;*  
*Director of Intramural Sports* 1209 North Duke Street
- HAGLER, ELLIS, (1930) A.B.  
*Instructor in Physical Education; Coach of*  
*Varsity Golf; Assistant Coach of Football* 911 Arnette Avenue
- HILL, DAN WINFIELD, JR., (1939) A.B.  
*Assistant in Physical Education* 206 Watts Street
- LEWIS, HUBERT MURRY, (1937) B.S.  
*Assistant Instructor in Physical Education and Track* Duke University
- PERSONS, WALTER, (1930)  
*Instructor in Physical Education; Coach of Swimming* West Campus
- STANLEY, DENNIS KEITH, (1939) A.B.E., M.Ed.  
*Instructor in Physical Education; Assistant*  
*Coach of Football* University Apartments
- WARREN, ADDISON, (1931) A.B.  
*Assistant Instructor in Physical*  
*Education; Coach of Boxing* 115 Dillard Street

INSTRUCTIONAL ASSISTANTS IN PHYSICAL EDUCATION  
 THE WOMAN'S COLLEGE

- BOOKHOUT, ELIZABETH CIRCLE, MRS., (1932) A.B., M.S.  
*Instructor in Physical Education* 12 Bickett Apartments
- DOWLING, MARY LOUISE, (1937) B.S.  
*Instructor in Physical Education* K-3-B University Apartments
- LEWIS, MARTHA MODENA, (1933) B.S.  
*Instructor in Physical Education* 207 Watts Street
- WYCHE, ALMA VIRGINIA, (1930) A.B., M.S.  
*Instructor in Physical Education* 301 Erwin Apartments

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THE UNIVERSITY LIBRARIES

- BRANSCOMB, BENNETT HARVIE, A.B., B.A., M.A., Ph.D.  
*Director of Libraries* Hope Valley
- LAND, WILLIAM GOODFELLOW, A.B., A.M.  
*Assistant Director of Libraries* University Apartments

GENERAL LIBRARY

- BREEDLOVE, JOSEPH PENN, A.B., A.M.  
*Librarian* 407 Watts Street
- LUND, JOHN JORGENSEN, A.B., Ph.D., Certificate in Librarianship  
*In Charge of Order Department* 1015 Gloria Avenue
- MALONE, EVA EARNSHAW, A.B., B.S.  
*Assistant Librarian in Charge of Cataloguing* 512 Watts Street
- \*NUERMBERGER, GUSTAVE ADOLPH, A.B., A.M., Ph.D.  
*Reference Librarian* 1601 Club Boulevard

\* Absent on leave, 1938-1939.

PRATT, ELLIS CARL, A.B. <i>In Charge of Circulation Department</i>	1000 Broad Street
*BONNER, BERNICE, MRS. <i>Clerical Assistant in Order Department</i>	905 Sixth Street
BURCH, VELLA JANE, A.B., A.M., A.B. in L.S. <i>Cataloguer</i>	316 North Elizabeth Street
**COVINGTON, LENA, A.B. <i>Assistant in Order Department</i>	1008 Monmouth Avenue
CREWS, SUDIE ELIZABETH <i>Assistant in Order Department</i>	1004 West Trinity Avenue
***EVINS, SARAH ELFORD, B.S., B.A. in L.S. <i>Cataloguer</i>	Beverly Apartments
FRAZIER, ROSE MARIE, B.S., B.M., A.B. <i>Cataloguer of Documents</i>	702 Buchanan Boulevard
FREY, ELLEN, B.A. <i>Assistant in Manuscript Room</i>	Faculty Apartments
****GANTT, EVA GOLDIE, A.B. <i>Assistant in Order Department</i>	1311 Arnette Avenue
GREEN, JANE, A.B., B.A. in L.S. <i>Assistant in Order Department</i>	1004 West Trinity Avenue
HAMILTON, MARY ELIZABETH BOYD, MRS., A.B., B.S. <i>Assistant Reference Librarian</i>	410 Watts Street
HELMAN, EUGENIE, MRS. <i>Attendant in Engineering Library</i>	1005 West Trinity Avenue
HIX, EDWIN JONATHAN, A.B. <i>Assistant in Circulation Department</i>	1303 Duke University Road
HOBBS, SARAH BLANCHARD, MRS., A.B., B.S. <i>Cataloguer</i>	Powe Apartments, Buchanan Road
IZARD, ANNE REBECCA, A.B. <i>Junior Cataloguer</i>	1011 Monmouth Avenue
JAFFE, LILLIAN DOROTHY <i>Typist in Cataloguing Department</i>	704 Roxboro Street
JETT, FLORENCE LEIGH, A.B., A.B. in L.S. <i>Assistant in Order Department</i>	1011 Monmouth Avenue
JOYNER, WILLIAM EPPIE, A.B. <i>In Charge of Reserve Book Room</i>	2206 Wilson Street
†KEEN, EUNICE, A.B., B.A. in L.S. <i>Cataloguer</i>	411 Cleveland Street
KLEIN, LENETTA GARRETT, MRS., Certificate in Librarianship <i>Cataloguer</i>	924 Green Street
LEWIS, EVELYN, B.S. <i>Cataloguer</i>	1008 Monmouth Avenue
LINEBERRY, FOY, A.B., B.A. in L.S. <i>Cataloguer</i>	1007 Lamond Avenue

\* Resigned, March 15, 1939.

\*\* Absent on leave, 1938-1939.

\*\*\* Resigned, November 15, 1938.

\*\*\*\* Resigned, May 1, 1939.

† Resigned, September 1, 1938.

MATTHEWS, MARY, MRS., A.B., A.M. <i>Attendant in Chemistry Library</i>	2013 Wa Wa Avenue
MAULTSBY, KATHLEEN, A.B. <i>In Charge of Workroom</i>	501 Elizabeth Street
MERRITT, GERTRUDE, A.B. <i>Assistant in Order Department and Cataloguer of Serials</i>	814 Markham Avenue
MORGAN, KATHERINE, MRS., A.B. <i>Attendant in Physics Library</i>	University Apartments
MYERS, MILDRED FLORENCE, A.B., B.S. in L.S. <i>Cataloguer</i>	704 Buchanan Boulevard
*NUERMBERGER, RUTH KETRING, MRS., A.B., A.M., Ph.D. <i>In Charge of Manuscript Room</i>	1601 Club Boulevard
OATHOUT, MELVIN, A.B., A.B. in L.S. <i>Assistant in Reference Department</i>	1305 Watts Street
OGDEN, CATHERINE, A.B., B.S. in L.S. <i>Assistant in Order Department</i>	1111 Urban Avenue
OYLER, HELEN, A.B., B.S. in L.S. <i>Cataloguer</i>	704 Buchanan Boulevard
PARKER, WIXIE ELMA, A.B., B.S. in L.S. <i>In Charge of Periodical Room</i>	201 Erwin Apartments
POOLE, MARY ELIZABETH, A.B., B.A. in L.S. <i>Assistant in Document Room</i>	407 Watts Street
RAMAGE, MARY ALLENE, A.B., B.A. in L.S. <i>In Charge of Newspaper Room</i>	1003 Monmouth Avenue
ROBERTS, DORA YOUNG, MRS. <i>Typist in Cataloguing Department</i>	Hillsboro, N. C.
ROSE, ETHEL ABERNETHY, MRS., A.B. <i>Cataloguer</i>	603 Watts Street
SEIGLER, HAZEL GANTT, MRS., A.B. <i>Junior Cataloguer</i>	718 Vickers Avenue
SHORE, CULVER, A.B. <i>Attendant in Graduate Reading Room</i>	202 Epworth, East Campus
SHARPE, NANCY ELIZABETH <i>Clerical Assistant in Order Department</i>	1303 Lakewood Avenue
SHUFORD, MARY OPAL, A.B. <i>Typist in Cataloguing Department</i>	805 Sixth Street
STALLCUP, MARY JANE, B.S., B.A. in L.S. <i>Assistant in Reference Department</i>	407 Watts Street
STEVENSON, MARY ESTHER, A.B., A.B. in L.S. <i>Cataloguer</i>	Chapel Hill, N. C.
STROWD, ANNE, A.B. <i>Secretary to the Director</i>	901 Mangum Street
TATUM, WILLIAM GILCHRIST, JR., A.B. <i>Attendant in Periodical Room</i>	1200 College Road
THOMPSON, SARAH WRAY, A.B. <i>In Charge of Business Division of the Order Department</i>	208 Buchanan Boulevard

\* Absent on leave, 1938-1939.

TILLEY, NANNIE MAY, A.B., A.M., Ph.D. <i>Assistant in Manuscript Room</i>	2313 Club Boulevard
WESCOTT, MARY, A.B., B.S. <i>Cataloguer</i>	1008 Monmouth Avenue
WILKERSON, LULA HUNT, MRS. <i>Secretary to the Librarian</i>	1000 Broad Street
*WILLIFORD, ANNIE MAY, A.B., A.M., Ph.D. <i>Assistant in Manuscript Room</i>	Faculty Apartments, East Campus
WOODALL, EVA AVERY, A.B. <i>Attendant in School of Religion Library</i>	1003 Monmouth Avenue
WYNNE, MARJORIE, A.B. <i>Attendant in Biology Library</i>	506 Buchanan Road

## WOMAN'S COLLEGE LIBRARY

GRIGGS, LILLIAN BAKER, MRS., B.A. in L.S. <i>Librarian</i>	900 Monmouth Avenue
COBB, BERTHA ELIZABETH, A.B., B.A. in L.S. <i>Assistant in Circulation Department</i>	520 South Duke Street
FAUCETTE, MARY ELIZABETH, A.B. <i>Assistant in Circulation Department</i>	610 East Trinity Avenue
HARRISON, EVELYN JENNINGS, A.B., B.S. in L.S. <i>In Charge of Cataloguing</i>	1008 Monmouth Avenue
HICKS, SPEARS, MRS., A.B., A.B. in L.S. <i>Reference Librarian</i>	121 West Seeman Street
MARTIN, CAROLINE, A.B., A.B. in L.S. <i>Cataloguer</i>	208 Watts Street
MONTGOMERY, MARGARET ELIZABETH, A.B. <i>In Charge of Periodicals</i>	205 Faculty Apartments, East Campus
**TUDOR, FRANCES, A.B. <i>In Charge of Circulation Department</i>	207 Watts Street

## LAW LIBRARY

ROALFE, WILLIAM ROBERT, LL.B. <i>Librarian</i>	1109 North Gregson Street
COVINGTON, MARY SIMMONS, A.B., LL.B. <i>Research Librarian</i>	Faculty Apartments
DAY, KATHERINE, B.S. <i>Assistant Cataloguer</i>	512 Watts Street
LONG, MARIANNA, A.B., B.S. in L.S. <i>Head Cataloguer</i>	1008 Monmouth Avenue
MANGUM, HAZEL <i>Assistant in Order Division</i>	110 Buchanan Road
WALKER, ANNIE CARPENTER, MRS. <i>Secretary to the Librarian</i>	2121 West Pettigrew Street

## MEDICAL SCHOOL LIBRARY

FARRAR, JUDITH, A.B., B.S. <i>Librarian</i>	177 Faculty Apartments, East Campus
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\* Resigned, February 1, 1939.

\*\* Absent on leave, 1938-1939.



## UNIVERSITY CHAPEL

HICKMAN, FRANKLIN SIMPSON, A.B., A.M., S.T.B., Ph.D. <i>Dean of the Chapel</i>	Buchanan Road
BARNES, JAMES FOSTER, A.B., A.M. <i>Director of Choral Music</i>	703 Watts Street
BREES, ANTON <i>University Carillonneur</i>	Pickett Road
BROADHEAD, EDWARD HALL, A.B., A.M. <i>University Organist</i>	2614 Chapel Hill Road
CLEAVELAND, FREDERIC NEILL, A.B. <i>Assistant in Religious Activities</i>	2212 University Drive
*CUNINGGIM, AUGUSTUS MERRIMON, A.B., B.A. (OXON.), A.M. <i>Acting Director of Religious Activities</i>	West Campus
SOMERVILLE, WILLIAM BIERMAN, A.B. <i>Assistant in Religious Activities</i>	Duke University

## PHYSICAL EDUCATION AND STUDENT HEALTH

WADE, WALLACE, A.B. <i>Director of Physical Education, Trinity College</i>	West Campus
GROUT, JULIA REBECCA, A.B., M.S. <i>Director of Physical Education, Woman's College</i>	205 Jones Street
SPEED, JOSEPH ANDERSON, M.D. <i>Director of Student Health</i>	913 Dacian Avenue
FLETCHER, JUNE THOMAS, MRS., A.B., M.D. <i>Physician, Woman's College</i>	
PAGE, WRAY RAMSEY, MRS., (1928) R.N. <i>Resident Nurse</i>	East Campus Infirmary
VESTAL, MOZELLE, (1931) R.N. <i>Resident Nurse</i>	East Campus Infirmary

## SOCIAL AND MUSICAL ACTIVITIES

BARNES, EVELYN, B.S. <i>Assistant Social Director of the Woman's College, Head of Alsbaugh House</i>	Alsbaugh House
BARNES, JAMES FOSTER, MRS. <i>Director of the Woman's College Musical Clubs</i>	703 Watts Street
CHAFFIN, NORA CAMPBELL, A.B., A.M. <i>Head of Bassett House</i>	Bassett House
FEARING, ROBERT BEVERIDGE <i>Director of the College Orchestras and Band</i>	University Apartments
KESTLER, MARY, A.B., A.M. <i>Head of Jarvis House</i>	Jarvis House
MEADE, MARY E., A.B. <i>Head of Aycock House</i>	Aycock House

\* Absent on leave, 1939-1940.

PEMBERTON, MARY NORCOTT, MRS.  
*Hostess, West Campus Union*

Kilgo Quadrangle, West Campus

TAYLOR, HARRIET, MRS.  
*Head of Giles House*

Giles House

UPCHURCH, WALTER MCGOWAN, JR., A.B., LL.B.  
*Financial Adviser, Student Activities*

Faculty Apartments

## FELLOWS AND GRADUATE ASSISTANTS

### UNIVERSITY FELLOWS\*

ABBETT, CAROL HOPE A.B., Macalester College; A.M., University of Minnesota	History	Faculty Apartments
ANDERSON, MARCIA LEE A.B., Bryn Mawr College; A.M., Duke University	English	410 Watts Street
AYERS, JOHN CARR A.B., Kalamazoo College; M.S., Kansas State College	Zoology	1014 Lamond Avenue
BOOMHOUR, ELIZABETH GREGORY A.B., Meredith College; A.M., Cornell University	Botany	East Campus
BRACH, EARL TILTON A.B., Duke University	Greek	1106 Chapel Hill Street
BRIGHT, ROBERT DIETRICH A.B., Dartmouth College	Chemistry	H2B University Apts.
CORRELL, DONOVAN STEWART A.B., A.M., Duke University	Botany	Harvard University
FOSTER, HAZEL ELIZABETH A.B., Hood College; A.M., Duke University	Political Science	102 Faculty Apts.
GARBER, PAUL LESLIE A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary	Religion	2114 Myrtle Drive
GUYTON, PERCY LOVE B.S., Mississippi State College; M.B.A., Northwestern University	Economics	Brookings Institution
HAMILTON, JAMES DAVID TILLMAN A.B., A.M., University of Mississippi	History	Box 4862, Duke Station
HARGRAVES, HERBERT WALTER A.B., University of Nevada; A.M., Clark University	Economics	916 Markham Avenue
KINCHELOE, HENDERSON GRADY A.B., University of Richmond; A.M., Harvard University	English	1505 Duke Univ. Rd.
KIRBY-SMITH, JOHN SELDEN B.S., University of the South; A.M., Duke University	Physics	307-DD
LUTTRELL, EVERETT STANLEY B.S., University of Richmond	Botany	1004 Minerva Avenue
MARTIN, ABRAM VENABLE, JR. A.B., Presbyterian College	Mathematics	1004 Minerva Avenue
O'LEARY, JAMES JOHN A.B., A.M., Wesleyan University	Economics	201-Q
PARK, ROBERT DEFEST A.B., Oberlin College	Physics	307-DD

POHL, HERBERT ACKLAND A.B., Duke University	Chemistry	012-V
REIN, WILLIAM CHRISTOPHER A.B., Western Maryland College ;	Education M.Ed., Duke University	818 Sixth Street
WHARTON, GEORGE WILLARD, JR. B.S., Duke University	Zoology	7 Bickett Apts.

## GRADUATE ASSISTANTS

ABRAMOVITCH, BENJAMIN B.S., McGill University	Chemistry	M3A University Apts.
AUSTIN, MARGUERITE ZELLE A.B., Winthrop College	French	215 Faculty Apts.
BALLARD, CARROLL CHADWICK A.B., Duke University	Economics	M2B University Apts.
BARBOUR, WILLIAM JOHNSTON A.B., University of North Carolina	Botany	1004 Minerva Avenue
BRANDIS, ROLAND BUFORD, JR. A.B., University of Richmond	Economics	808 N. Gregson St.
BRESLOW, DAVID SAMUEL B.S., College of the City of New York	Chemistry	307-C
BRICE, ASHBEL GREEN A.B., A.M., Columbia University	English	304-B
CAIN, HERBERT LLOYD A.B., Southwestern ; A.M., Duke University	Greek	1012 Urban Avenue
CAUSEY, NELLE BEVEL B.S., College of the Ozarks ; A.M., University of Arkansas	Zoology	306 Faculty Apts.
*COLLINS, HAROLD REEVES A.B., Duke University ; A.M., Columbia University	English	303-A
COOK, ELLSWORTH BARRETT B.S., Springfield College	Zoology	107 Epworth
**COVINGTON, PHILIP STANHOPE SHEFFIELD A.B., Emory University	English	819 Third Street
COX, HEADLEY MORRIS, JR. A.B., Duke University	English	201-C
CREGAN, ROBERT FRANCIS A.B., Marietta College ; A.M., Duke University	Philosophy	814 Sixth Street
DERR, PAUL FRANKLIN B.S., Duke University	Chemistry	307-C
DETURK, WILLIAM ERNEST A.B., A.M., University of Illinois	Zoology	2715 Chapel Hill Rd.
DOTY, ROY A., JR. A.B., A.M., Duke University	Education	1007 W. Trinity Ave.
DUKE, KENNETH LINDSAY A.B., Brigham Young University	Zoology	2811 Hillsboro Rd.
DUNCAN, HARRY ALVIN A.B., Grinnell College	English	1206 N. Gregson St.

\* First semester only.

\*\* Second semester only.

DUNSKY, IRVIN A.B., University of Newark	Sociology	1801 Lakewood Ave.
EDDY, GEORGE NORMAN Th.B., Gordon College; A.M., Springfield College	Sociology	K2C University Apts. University of New Hampshire; M.Ed., Springfield College
FARLEY, JOHN THOMAS B.B.A., Manhattan College; M.S.,	Economics	116 Buchanan Rd. Columbia University
FLEMISTER, LAUNCE JOHNSON, JR. A.B., Duke University	Zoology	1018 Gloria Avenue
FORMWALT, JOHN MCCLELLAN A.B., Carson-Newman College	Physics	206-B
GARNER, WILLIAM NELSON B.S., Bethany College	Zoology	University Apts.
GILBERT, PAUL WILNER A.B., A.M., University of Rochester	Mathematics	103-A
HARRIS, SARAH SANDERS A.B., Woman's College of Furman University; A.M.,	Psychology	115 Faculty Apts. University of South Carolina
HEYWARD, MARY ANNE A.B., Duke University	English	305 Faculty Apts.
HOPKINS, JAMES FRANKLIN A.B., University of Mississippi; A.M.,	History	University Apts. University of Kentucky
HUDSON, BOYD ELLYSON, JR. A.B., Duke University	Chemistry	1114 Hillandale Rd.
HUMPHREYS, MARY EMILY A.B., Western Maryland College; A.M.,	Botany	102 Faculty Apts. Duke University
JOHNSTON, GEORGE WASHINGTON B.S., M.S., Mississippi State College	Botany	704 Buchanan Rd.
KUEHNER, KENNETH GEORGE A.B., Allegheny College; A.M.,	Education	114 Epworth Hall University of Pittsburgh
LAVERTY, CARROLL DEE A.B., A.M., University of Colorado	English	2500 Club Blvd
LEATH, JAMES MILTON A.B., Austin College; A.M.,	Political Science	2003 Club Blvd. Southern Methodist University
LIMOUZE, ARTHUR SANFORD A.B., College of Wooster; A.M.,	English	206-B Columbia University
MCWHITE, ELBERT NORTON B.S., The Citadel; M.S.,	Physics	Pickett Road University of Georgia
MANGRUM, JAMES FREED B.S., State Teachers College, Memphis, Tennessee; M.S.,	Zoology	Zoology Department University of Tennessee
MARYOTT, ARTHUR ALLEN A.B., Duke University	Chemistry	204-B
MILES, FRANK FRODSHAM A.B., University of Washington	Sociology	1803 Lakewood Ave.
MITCHELL, ROBERT EARL A.B., Miami University	English	Box 4798, Duke Station
MORRISON, GARRETT WEIR A.B., Kansas State Teachers College	Psychology	117 Epworth

MOUNTJOY, MARJORIE A.B., Vanderbilt University	Latin	302 Faculty Apts.
PLANTINGA, CORNELIUS A. A.B., Calvin College; A.M., University of Michigan	Philosophy	814 Sixth Street
POPE, MARVIN HOYLE A.B., Duke University	Religion	317 Anderson Street
PURCELL, JAMES SLICER, JR. A.B., John B. Stetson University; A.M., Duke University	English	1505 Duke University Rd.
RAMSEY, HELEN JOYCE B.S., M.S., Purdue University	Zoology	Faculty Apts.
RICHARDS, CLAUD HENRY, JR. A.B., Texas Christian University	Political Science	918 Urban Ave.
ROBERG, JANE B.S., University of Washington	Physics	114 Faculty Apts.
SCARBOROUGH, HENRY BALDWIN A.B., Duke University	Physics	Physics Building
SCHULTZ, HAROLD A.B., Columbia University	History	M3A University Apts.
SEWARD, DONALD MONFORT A.B., John B. Stetson University; A.M., University of North Carolina	Mathematics	2541 Chapel Hill Rd.
SEWARD, WILLIAM WARD, JR. A.B., A.M., University of Richmond	English	1603 Duke Univ. Rd.
SMITH, CLARENCE MCKITTRICK, JR. A.B., B.Mus., Newberry College; A.M., Harvard University	History	104-A
STABLER, CAREY VITALLIS B.S., A.M., University of Alabama	History	2009 Pershing Street
STAINBROOK, EDWARD JOHN A.B., Allegheny College	Psychology	1206 N. Gregson St.
STEELE, ALPHEUS THORNTON A.B., Municipal University of Wichita	Economics	812 Sixth Street
STOREY, JOHN STUART A.B., Albion College	Economics	206 Watts Street
STUCKEY, JAMES MORLAN B.S., Centenary College; A.M., Duke University	Chemistry	Chemistry Department
TALBERT, ROBERT HARRIS A.B., B.S., Southeast Missouri State Teachers College; A.M., University of Missouri	Sociology	401-G
TURNER, WALLACE BLYTHE A.B., Georgetown College; A.M., University of Kentucky	History	206 Atlas Street
WADE, LUTHER IRWIN A.B., Duke University	Mathematics	1106 Chapel Hill St.
WALTCHER, IRVING B.S., Rhode Island State College	Chemistry	M2B University Apts.
WALTERS, ELEANOR BOYD B.S., Delta State Teachers College	Mathematics	1111 Urban Avenue
WATTS, HESSIE BRAWLEY A.B., A.M., Duke University	English	306 Faculty Apts.
WEBB, JOHN MAURICE A.B., Duke University; A.M., Yale University	History	1017 Trinity Avenue

WELLS, ELGIN MILES, JR. A.B., Mississippi College	Physics	M2B University Apts.
WOLF, MARY HUBBARD A.B., Mount Holyoke College	Zoology	924 Urban Avenue
YOUNG, DEWALT SECRET A.B., Cornell (Iowa) College; A.M., Duke University	Chemistry	01-C

## GRADUATE SCHOLARS

BENNETT, GEORGIA BELLE A.B., College of William and Mary; A.M., Duke University	Psychology	506 Watts Street
BETHEL, JAMES SAMUEL B.S.F., University of Washington	Forestry	201 Jones Street
BOND, ESTHER MAY B.S., M.S., Florida State College for Women	Psychology	818 Sixth Street
*BUSSELL, WILSIE FLORENCE A.B., A.M., Duke University	French	816 Watts Street
CARRAWAY, JAMES BLANDING A.B., Furman University	Economics	806 Sixth Street
COLLEY, FRANK HARRIS A.B., Duke University	History	Hope Valley
COLLOMS, LESTER HUBERT A.B., Emory and Henry College; B.D., Emory University	Religion	1018 Monmouth Ave.
DECKER, JOHN PETER B.S., University of Idaho	Botany	704 Buchanan Blvd.
DOTY, CORNELIA ALLEN A.B., Stanford University; A.M., Mills College	Education	1007 W. Trinity Ave.
DOWLING, ARTHUR JOSEPH, JR. A.B., Duke University	Philosophy	1010 W. Trinity Ave.
EWING, THOMAS NEWELL, JR. A.B., DePauw University; A.M., Syracuse University	Psychology	117 Epworth Hall
GILL, RUTH ELLEN A.B., Woman's College of the University of North Carolina	Physics	303 Faculty Apts.
HAUSSER, HARRY EDWARD A.B., Duke University	Philosophy	1026 Monmouth Ave.
HIBBS, MAX LEE B.S., Alabama Polytechnic Institute	History	116 Buchanan Blvd.
JENNINGS, LOUIS GIRTON A.B., Franklin and Marshall College	Latin	201-C
**LATTY, CAROLYN LUCILE A.B., Duke University	French	2016 Wilson St.
LIU, YUNG HUO A.B., Hwa Nan College; A.M., Mills College	Psychology	806 Third Street
LONG, JOHN WILLIAM, JR. A.B., Dickinson College	History	2414 Club Blvd.
MERRICK, GORDON DANFORTH B.S., University of Chicago	Forestry	918 Urban Ave.

\* First semester only.

\*\* Second semester only.



MOORE, THOMAS HAYES B.S., Roanoke College	Economics	114 Epworth
MUNSTER, RALF FRIEDRICH WILLIAM A.B., Duke University	Political Science	204-B
NELSON, MELVIN FREDERICK B.S., Mississippi State College ;	Political Science	1411 B Street
PECK, ROBERT LAWRENCE B.S., Duke University	A.M., Municipal University of Omaha Chemistry	819 Third Street
RICHARDS, JAMES AUSTIN, JR. A.B., Oberlin College	Physics	Box 4173, Duke Station
SINDLE, ELIZABETH MARY A.B., Bucknell University	French	305 Faculty Apts.
SINGER, ARMAND EDWARDS A.M., Amherst College	French	1013 Lamond Avenue
STEWART, PAUL DEKKER A.B., Hope College	Political Science	2102 Englewood Ave.
STURM, ALBERT LEE, JR. A.B., Hampden-Sydney College	Political Science	116 Buchanan Blvd.
TATE, RUSSELL SAGE, JR. A.B., University of Richmond	Economics	201 Jones Street
TOOLE, EBEN RICHARD B.S., New York State College of	Forestry	704 Buchanan Rd.
WOOD, FREDERIC MARCUS, JR. A.B., Adelbert College of Western Reserve University	Forestry ; A.M., Duke University Latin	1010 W. Trinity Ave.



# UNDERGRADUATE COLLEGES

Trinity College

The Woman's College

The College of Engineering

1938-1939

ANNOUNCEMENTS FOR 1939-1940

## THE COLLEGES

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### GENERAL STATEMENT

Duke University offers in Trinity College, the Woman's College and the College of Engineering three academic degrees for undergraduate work: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Civil, Electrical, or Mechanical Engineering. Ten groups of studies lead to the degree of Bachelor of Arts, and two groups of studies lead to the degree of Bachelor of Science. These groups are designated by Roman numerals in the order in which they are described. For a description of these groups, see the section elsewhere in this catalogue under the topic "Groups of Studies for the Degree of Bachelor of Arts."

### TRINITY COLLEGE

Trinity College is the undergraduate college for the men of Duke University and is situated on the West Campus along with the Graduate Schools of Arts and Sciences, the School of Law, the School of Medicine, the School of Nursing, the School of Forestry, and the School of Religion.

### THE WOMAN'S COLLEGE

The Woman's College of Duke University is a college of arts and sciences within the University which provides for the instruction of undergraduate women as Trinity College provides for the instruction of undergraduate men.

The teachers of the College, many of whom teach also in Trinity College, are members of the University Faculty and are selected in co-operation with the several departments of instruction just as in the case of teachers for Trinity College, thus assuring a uniform educational standard. Graduates of the Woman's College, as graduates of all other colleges and schools within the University, receive their degrees from Duke University.

### THE COLLEGE OF ENGINEERING

Duke University, through the College of Engineering, offers standard four-year courses in civil, electrical, and mechanical engineering. These departments are housed respectively in Bivins, Asbury, and Branson Buildings. The James H. Southgate Memorial Building, set aside for the housing of engineering students, contains social rooms, recitation rooms, gymnasium, dining room, and kitchen, as well as dormitory facilities.

### THE LIBRARIES

The Library resources of the University total 529,140 volumes and approximately 534,536 manuscripts. Fifty-five domestic and twenty foreign current newspapers, in addition to 2,874 current periodicals are received.

# ADMISSION TO TRINITY COLLEGE AND THE WOMAN'S COLLEGE

## GENERAL REGULATIONS

Admission to Trinity College and the Woman's College of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability.

## UNITS OF ADMISSION

The academic requirements for admission are defined in terms of units. A unit of credit is allowed for a subject of study pursued throughout an academic year at an accredited secondary school, if the course has demanded five recitations a week and the prescribed amount of work has been completed satisfactorily. Credit for fifteen units is required for admission.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

	UNITS		UNITS
English .....	4	Woodworking, Forging, and	
History and Social Studies.....	4	Machine Work.....	2
Latin .....	4	Art .....	1
Mathematics .....	4	Botany .....	1
Spanish .....	3	Chemistry .....	1
French .....	3	Economics .....	1
German .....	3	General Biology.....	1
Greek .....	3	General Science.....	1
Commercial Subjects.....	3	Music .....	1
Agriculture .....	2	Physical Geography.....	1
Household Economics.....	2	Physics .....	1
Mechanical Drawing.....	2	Sociology .....	1
		Zoology .....	1

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

## ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least twelve of the fifteen units required for admission must come from the following:

	UNITS		UNITS
English .....	3 to 4	Mathematics .....	2 to 4
Foreign Language.....	2 to 6	Science .....	1 to 4
History and Social Studies...	1 to 4		

These twelve units must include three in English and two in mathematics. The units in mathematics must include one in algebra and one in plane geometry.

The three additional units necessary to make the required fifteen may come from the list above or from the larger table of units of admission.

### ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University are required to validate their units by entrance examinations and such other tests as the University may prescribe.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by examinations.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: all applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester-hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students enrolling for the Bachelor's degree who transfer from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, are under all circumstances required to continue for at least one semester in Trinity College and in the Woman's College the foreign language they present for minimum graduation requirements.

Students who have transferred from junior colleges or from four-year colleges not affiliated with the Southern Association, or a similar regional association, must present laboratory notebooks in all science courses that are offered for advanced credit.



Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year-courses with an average grade of "C" or higher.

### FRESHMAN WEEK

The week immediately preceding the opening of college is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English, mathematics, and foreign languages. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to the new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age may, upon approval by the Dean, be admitted as special students and allowed to enroll for such work as they are prepared to carry.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

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## GENERAL REGULATIONS

The requirements for the degree of Bachelor of Arts are designed to give the students such training in certain fundamental subjects as is essential for intelligent, educated citizens. The requirements also provide the opportunity for as wide an election as possible from courses of study which are both interesting and practically helpful in connection with vocations the students plan later to pursue.

Credit for one hundred and twenty-two semester-hours, on which an average grade of "C" must be made, is required for the degree of Bachelor of Arts in all groups. In addition to these requirements all candidates for the Bachelor of Arts must complete, with an average grade of "C" or better, physical education to the equivalent of six semester-hours. In Trinity College the physical education requirement is completed by the end of the Sophomore year; in the Woman's College, by the end of the Junior year.

The Faculty has authorized the groups of studies below for the guidance of students in selecting the work required for graduation. A student is free to choose any group he may desire. The several groups are designed to be of special value in a chosen profession and at the same time to provide a well-balanced course of study. With the approval of the Dean a student may at any time transfer from one group to another. In such transfers, work done in one group and not prescribed in the other will count as general elective credit, but all work prescribed in the new group must be completed before the student can be graduated.

No student is permitted to take less than fourteen semester-hours of work without special permission from the Dean; to take more than the normal load of work (fourteen to seventeen semester-hours) unless his average grade in the preceding semester is higher than "C"; or, under any conditions, to take more than nineteen semester-hours of work, exclusive of required physical education.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Arts degree is limited to a maximum of thirty-six semester-hours; with the exception that a student whose principal work is in the Departments of English, Economics, or Romance Languages may be permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

Candidates for the degree of Bachelor of Arts whose courses of study permit may elect work from the following subjects: engineering, not to exceed eighteen semester-hours; forestry, not to exceed eighteen semester-hours. The courses elected in these departments must be those approved by the Council on Undergraduate Instruction as appropriate for the Bachelor of Arts degree and published in the *Bulletin of Undergraduate Instruction*. The classification of these courses, as they affect divisions of concentration and restricted electives, is left to the student's major adviser and to the Dean.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Arts in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

# MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
English Composition* .....	6
Natural Science** .....	8
Economics, History, or Political Science*** .....	6
Religion .....	6

In addition to the above requirements, at least the third college year of a foreign language must be completed.\*\*\*\*

Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

\* This requirement is normally met by the completion of English 1 and 2. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement.

\*\* A student who does not present for entrance an acceptable unit of science must take sixteen semester-hours of science for graduation.

\*\*\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\*\*\* Students who begin their language requirements in college are expected to follow the sequence of courses laid down by the department whose work they take and can omit only such course or courses as may be approved both by the department and the office of the Dean. Students who are granted the privilege of completing their language requirement by taking only six semester-hours in college must first pass, with at least a grade of "C," a special examination covering the work of the second college year. In addition, they must make at least an average of "C" on the work of the third college year. If a Freshman presents for entrance four units of Latin, he may satisfy his language requirements by taking either two years of Latin or two years of Greek.

GROUPS OF STUDIES FOR THE DEGREE OF  
BACHELOR OF ARTS

## GROUP I

## GENERAL

This group is based on the traditional requirement for the degree of Bachelor of Arts. Students who choose it must complete the minimum uniform requirements for graduation; forty-two semester-hours in a division of concentration, exclusive of courses open primarily to Freshmen (in the Division of the Natural Sciences a maximum of eight hours of Freshman work is permitted in the forty-two hours mentioned above); twelve semester-hours of restricted electives in the other divisions; and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation. The departments of instruction, for purposes of concentration, are grouped in three divisions:

**Humanities:** English, Fine Arts, German, Greek, Latin, Music, Philosophy, Romance Languages.

**Social Science and History:** Economics, Political Science, Education, History, Religion, Sociology.

**Mathematics, Psychology, and Natural Science:** Botany, Chemistry, Geology, Mathematics, Physics, Psychology, Zoology.

The forty-two semester-hours in the division of concentration must be distributed as follows: eighteen to twenty-four semester-hours in a major department and eighteen to twenty-four semester-hours in at least two other departments of the same division with a minimum of six semester-hours in each department. The minimum number of hours required by the department for a major shall not include any course open primarily to Freshmen. Introductory courses above the Freshman level are to be counted or not at the discretion of the department concerned.

For purposes of concentration certain courses listed in the same department are considered as being in different departments; namely, courses in French, Italian, and Spanish. Likewise, courses in economics and business administration are reckoned as being in different departments. Also, a student taking his major work in English literature may count courses in English composition, dramatic technique, or public speaking as part of his related work in the same division.

The twelve semester-hours of restricted electives must be taken in one or both of the divisions not chosen for concentration, with a minimum of six semester-hours in any one department of these divisions.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Arts degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in the Departments of English, Economics, or Romance Languages is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

The remaining hours necessary for graduation, after the minimum uniform requirements, the division of concentration, and the restricted electives are satisfied, are open as free electives.

## GROUP II

### BUSINESS ADMINISTRATION

This group is designed for students who enter college with the purpose of engaging in some form of business activity after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Economics 11, Mathematics 3-4, or equivalent.

Sophomore Year: Economics 51-52, 57-58, Political Science 61-62.

Junior Year: Economics 143, 138.\*

Senior Year: Economics 181-182, 203-204.

In addition to the courses specified above, a student in this group must elect twenty-one semester-hours from other courses in the Department. Six semester-hours of this elective work shall be selected from courses in the two-hundred group offered for Seniors and Graduates. With the permission of the Head of the Department students planning to take the examination to qualify as a Certified Public Accountant may be released from this requirement.

All elective work in economics must be approved in writing by some instructor offering advanced work in the Department.

## GROUP III

### RELIGION

This group is designed for students who plan to enter the ministry or other religious work as a vocation after graduation. The required work consists of the minimum uniform requirements and the courses specified below.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year: Religion 1-2.

Sophomore Year: Religion (6 hours), Economics 51-52 or Political Science 61-62, English Literature (6 hours).

Junior Year: Religion (6 hours), Psychology 101.

Senior Year: Religion\*\* (12 hours), Sociology (6 hours), Philosophy (6 hours).

\* With the permission of the Department, students specializing in accounting may substitute for this course one in that subject.

\*\* Not more than six semester-hours of electives may be taken in the Department of Religion.



## GROUP IV

## PRE-MEDICAL

Students qualifying for college graduation in this group must complete, in addition to the minimum uniform requirements, forty-two semester-hours in a division of concentration (subject to the regulations of the General Group), twelve semester-hours of restricted electives in one or both of the other divisions with at least six semester-hours in one department, and certain specific requirements as noted below. These specific requirements may count as part of the divisional concentration if the division of concentration is the Natural Sciences, or they may count as restricted electives if another division of concentration is chosen. The foreign language should be German or French, preferably the former and including German 107-108.

The following arrangement of the courses in science is suggested:

Freshman Year: Chemistry 1-2, Zoology 1-2, Mathematics 7-8, or equivalent.

Sophomore Year: Chemistry 61-70, Physics 51-52.

Junior Year: Chemistry 151-152.

## GROUP V

## COLLEGE TEACHING

This group is designed for students who plan to do work in a graduate school and teach in college. The required work consists of the minimum uniform requirements and the work specified below:

French and German through the second year of college work.\* Since one of these languages may be taken through the third year of college work to satisfy the minimum uniform requirements, only the one not taken thus must be chosen to meet the conditions of this group.

Twenty-four semester-hours of work in the major subject, exclusive of work in the subject offered primarily for Freshmen; twelve semester-hours of work in related subjects approved by the student's Departmental Adviser; twelve semester-hours in education, philosophy, and psychology, or in any one, not including any courses in secondary or elementary school methods.

Elective work, not to be taken in the major department, sufficient to complete the one hundred and twenty-two semester-hours necessary for graduation.

At least twelve semester-hours of the work taken in the Senior year must be in courses open only to Seniors and Graduates.

## GROUP VI

## PUBLIC SCHOOL TEACHING

This group is designed for two classes of students: (a) those who plan to teach in secondary schools; (b) those who plan to teach in elementary schools.

\* Greek or Latin may be substituted for either French or German.



The required work consists of the minimum uniform requirements and the requirements listed under one of the classes below, according as the student expects to teach in a secondary school or in an elementary school.

**CLASS A: SECONDARY SCHOOL TEACHING**

Students in this class are required to take:

Eighteen semester-hours in education, of which three semester-hours may be in general psychology. The work in education must include three semester-hours in directed observation and practice teaching, three semester-hours in educational psychology, and three semester-hours in secondary education.

Six semester-hours, three each, in materials and methods, in two fields of high-school teaching.

Work in the subject matter of the two subjects the student intends to teach, sufficient to satisfy the minimum requirements as listed in the table below:

English, twenty-four semester-hours, to include six of required work in composition, six in English literature, and six in American literature.

French, eighteen semester-hours, based on the usual two units for admission. German, Spanish, and Greek, the same requirements as for French.

History, eighteen semester-hours, including six each in American, ancient and medieval, and modern European history, and six semester-hours of economics or political science. It is recommended to prospective teachers of history and related subjects that they take elective work in sociology, geography, and at least a semester each in economics and political science.

Latin, eighteen semester-hours based on the traditional four units for admission.

Mathematics, fifteen semester-hours.

Physical Education, twelve semester-hours.

Science, thirty semester-hours, including elementary courses in biology, chemistry, physics, and geography or geology.

A student may prepare to teach only one high-school subject by taking a major of twenty-four semester-hours in that subject (physical education excepted) in addition to the general required work in Class A, the required work in education and psychology, and the specifically required work in directed observation and materials and methods in the subject chosen.

Elective work sufficient to complete the one hundred and twenty-two semester-hours for graduation. It is recommended that the elective work be chosen in the two subjects the student is preparing to teach and in the Division of Social Science, provided the total amount of work taken in any department may not exceed the total allowed in Group I.

Students who are preparing to teach are warned to read carefully the certification rules of the state in which they are going to teach and to advise fully with the Dean before electing courses in subjects they are preparing to teach. They are further warned to take their professional courses in the order outlined by the Department of Education, reserving

for their Senior year courses in materials and methods and in directed observation and practice teaching.

At least twelve semester-hours of the work in the Senior year must be in courses open only to Seniors or to Seniors and Graduates.

#### CLASS B: ELEMENTARY SCHOOL TEACHING

Students in this class conform to the general requirements of Group I. Education is treated as a major department, and the Social Science Division as the division of concentration. In addition to the general requirements of Group I, the following specific requirements must be met:

	S.H.
English .....	3 or 6
American History and Government.....	6 or 9
Geography .....	6
Physical Education and Hygiene.....	6

These special requirements are reckoned in each case as a part of the appropriate division of concentration. The student in Class B should take Education 8 in the first semester of his Freshman year and advise with the Department as to an appropriate course for the spring semester. In all other particulars his course follows the General Group for the first year.

The following arrangement of courses is recommended for Freshmen entering the Teaching Group. The work for the following years will be arranged by the Department of Education.

#### FRESHMAN YEAR

	S.H.
English .....	6
Foreign Language.....	6
Science .....	8
History or elective* .....	6
Education or elective** .....	6
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#### GROUP VII

##### PRE-LEGAL

This group is designed for students who expect to study law after graduation. The required work consists of the minimum uniform requirements\*\*\* and the courses specified below.

The following arrangement of specified courses is recommended:

Freshman Year: Introductory Course in History (1-2 if taken in the Freshman year or 51-52 if taken thereafter).

Sophomore Year: Economics 51-52, Political Science 61-62.

\* History is an alternate with economics or political science in the minimum requirements when the student presents two units of history for admission.

\*\* Students in Class B should take Education 8 the first semester and follow it with the course approved by the Department of Education the second semester; students in Class A follow the same plan or take any of the electives authorized for the General Group.

\*\*\* When there is overlapping, the minimum uniform requirements are accepted as a part of the special requirements in this group.

Junior Year:	Economics 143, History 105-106, Psychology 101, and either English 151 or 152.
Senior Year:	Six semester-hours of Economics from courses approved for Seniors.

The electives should be chosen largely from the work offered by the following departments: Philosophy, Sociology, Economics, History, Psychology, and Political Science. The total work (required and elective) in any one department may not exceed thirty semester-hours.

At least twelve semester-hours of the electives in the Senior year must be Senior-Graduate courses.

## GROUP VIII

### SOCIAL SERVICE

This group is designed for students who purpose after graduation to pursue professional studies in order to engage in practical social welfare work, such as family, child, and public welfare, probation and parole, and similar forms of neighborhood and community work. The required work consists of the minimum uniform requirements and the courses specified below. Zoology is recommended for the required course in science.

The following arrangement of specified courses is recommended for students electing this group:

Freshman Year:	History 1-2.
Sophomore Year:	Economics 51-52, Sociology 91-92 or Sociology 101.
Junior Year:	Philosophy (6 hours), Political Science (6 hours), Psychology 101, Sociology (6 hours).
Senior Year:	Economics (6 hours), Psychology (6 hours), Sociology (6 hours).

The electives should be chosen mainly from history, economics, political science, education, sociology, philosophy, psychology, and religion.

The subjects required for the Junior and Senior years may be transposed according to the courses available in any particular year.

## GROUP IX

### ACADEMIC-LAW COMBINATION

Students in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course whereby they will receive their academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester-hours of undergraduate work, including both the minimum uniform and the specific requirements, in the Pre-Legal Group of studies in Duke University may on the approval of the Dean of the undergraduate college transfer to the Law School of Duke University and become eligible for the Bachelor's degree on the satisfactory

completion of the full twenty-six semester-hours of work of the first-year class in this school.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit towards the Bachelor's degree.

## GROUP X

### HONORS

*Purpose:* Students who have revealed their desire and demonstrated their ability to do a type of intellectual work higher than that normally required for the liberal arts degree may apply to read for Honors during their last two college years. The aim of the Honors studies is to permit qualified undergraduates to attain a knowledge, both comprehensive and intensive, of a particular field, or fields, under conditions most stimulating to individual initiative and independence.

#### *General Rules:*

I. A student who has sixty-two semester-hours of work to his credit and who has completed the minimum requirements for graduation may apply to read for Honors. A departmental committee may, however, permit students to take as much as twelve hours of the minimum uniform requirements in the Junior and Senior years provided that these are offset by the same number of hours in related subjects taken previously in courses not open primarily to Freshmen.

II. The departmental Honors program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester-hours of work.

III. The minimum amount of work that may be taken in the major department shall be the equivalent of twenty-four semester-hours, and the maximum shall be the equivalent of thirty-six semester-hours.

IV. The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester-hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

*Departmental Honors:* Honors courses are available to qualified students in the following departments: Botany, Chemistry, Education, English, French, German, Greek, History, Mathematics, Philosophy, Physics, Psychology, Religion, and Zoology.

An undergraduate wishing to qualify for Departmental Honors usually enters the General Group during the Freshman year. At the close of the Sophomore year he may apply to read for Honors in a particular department. The requirements for admission to candidacy for Honors vary in the different departments. The student should consult the special requirements set forth in the "Departmental Honors Program." The Departmental Committee determines the eligibility of the various applicants for Honors reading within the department.

Students transferring from other institutions of approved standing at the close of the Sophomore year may be admitted to candidacy for Honors. Those wishing to read for Honors who expect to transfer at the close of the Sophomore year should communicate with Dean W. K. Greene, Chairman of the College Council on Honors, not later than April 15.

The work required of students in the Departmental Honors Group consists of (1) the minimum uniform requirements; (2) the program of Honors for the Junior and Senior years; and (3) elective work sufficient to complete the semester-hours necessary for graduation.

Study in a Department Honors course always includes work in regular open courses. In both Junior and Senior years it may, and usually does, also include work under special instruction (seminarial or tutorial) and assignments of independent reading.

All candidates who complete satisfactorily the minimum uniform requirements, a Departmental Honors course, and elective work sufficient to earn the necessary hours for graduation will be recommended by the Departmental Committee to the Dean of the College for graduation with Honors.



# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

## GENERAL REGULATIONS

The general regulations governing the requirements for the degree of Bachelor of Science are the same as those for the degree of Bachelor of Arts.

## SPECIAL REGULATIONS

The following special rules applying to the selection of courses are authorized by the Faculty:

The total amount of work that a student, other than an Honors student, may take in any one department toward the Bachelor of Science degree is limited to a maximum of thirty-six semester-hours; provided that a student whose principal work is in a department containing several sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

No Senior may take for graduation credit any course primarily open to Freshmen; and no Junior may take for graduation credit more than one course primarily open to Freshmen. A list of these courses is published in the *Bulletin* under "Courses of Instruction."

Not more than one course of six or eight semester-hours of credit in final fulfillment of the requirements for the degree of Bachelor of Science in Duke University may be taken in another institution of approved standing, and this course must first be approved by the head of the department concerned and by the Dean.

## MINIMUM UNIFORM REQUIREMENTS FOR ALL GROUPS

The following requirements are authorized for all groups:

	S.H.
Economics, History, or Political Science*.....	6
English Composition** .....	6
French*** (second college year).....	6-12
German*** (second college year).....	6-12
Mathematics**** .....	6
Natural Science***** .....	16
Religion .....	6

\* A student who does not present for entrance two acceptable units of history (exclusive of other social science work) must take history as his required work; otherwise, he may fulfill this requirement in any one of the three subjects.

\*\* This requirement is normally met by the completion of English 1 and 2 or 4. However, a Freshman who satisfies the Department of English of his superior ability in composition may substitute another English course for the normal requirement. If a student fails to pass English 1-2 with a grade of "C" or better, he must complete three additional semester-hours of composition.

\*\*\* All candidates for the degree of Bachelor of Science must complete at least the second year of both college French and college German or their equivalent as determined by examination.

\*\*\*\* This requirement must be satisfied by the completion of Mathematics 7-8, or equivalent.

\*\*\*\*\* All candidates for the degree of Bachelor of Science must complete eight semester-hours in each of two elementary sciences.



Of these minimum requirements, at least three courses, including English and foreign language, should be taken in the Freshman year, and all of them, except foreign language and religion, by the end of the Sophomore year.

The courses primarily open to Freshmen and the courses that will satisfy the requirements in history, science, and religion are listed under "Courses of Instruction."

## GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE

### GROUP I

#### GENERAL

Students who choose this group are required to complete the minimum uniform requirements for graduation; forty-eight semester-hours in the Division of Mathematics, Psychology, and Natural Science, of which not less than twenty-four nor more than thirty-two semester-hours may be taken in a major department (the hours prescribed in the major department may not include a course primarily open to Freshmen); and free elective work sufficient to complete, with an average grade of "C," the one hundred and twenty-two semester-hours necessary for graduation.

The student's major work must be in botany, chemistry, forestry, geology, mathematics, physics, psychology, or zoology.

Attention is called here to a special regulation governing all groups leading to the Bachelor of Science degree which limits the amount of work a student, other than an Honors student, may take in any one department to a maximum of thirty-six semester-hours, with the proviso that a student whose principal work is in a department containing any approved sub-departments is permitted to take additional work in sub-departments not to exceed a total in the department and the sub-departments of fifty-four semester-hours.

### GROUP II

#### PRE-FORESTRY

This group of studies is designed for students who intend to pursue the study of forestry, particularly as a profession. The first three years are given largely to fundamental and auxiliary subjects basic to a proper understanding of the more specialized work in technical forestry, which ordinarily requires two additional years to complete. The fourth year of this curriculum is devoted entirely to the first year of technical forestry. Upon the satisfactory completion of this four-year pre-forestry curriculum a student is eligible for a Bachelor of Science degree from Duke University. With this basic preparation it is possible to obtain the professional degree of Master of Forestry in one additional year of work taken in the School of Forestry (see *Bulletin of the School of Forestry*).

The following arrangement of courses is recommended for students electing this group:

*Freshman Year*

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Botany 1 .....	4	Botany 2 .....	4
Physics 1 .....	4	Physics 2 .....	4
English 1 .....	3	English 2 .....	3
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 14		<hr/> 14

*Sophomore Year*

Chemistry 1 .....	4	Chemistry 2 .....	4
Mathematics 7 .....	3	Mathematics 8.....	3
Religion .....	3	Botany 52 .....	4
Engineering Drawing 1 .....	2	Engineering Drawing 2.....	2
Foreign Language .....	3	Foreign Language .....	3
	<hr/> 15		<hr/> 16

*Junior Year*

Botany 151 .....	4	Botany 156 .....	4
Geology 51 .....	4	Economics 52 .....	3
Economics 51.....	3	Foreign Language .....	3
Foreign Language .....	3	Religion .....	3
	<hr/> 14	Elective .....	2
			<hr/> 15

Summer Field Work: 12 weeks to include Civil Engineering S110 (Plane Surveying), 3 s.h.; Forestry S150 (Forest Surveying), 5 s.h.; Forestry S151 (Forest Mensuration), 4 s.h., which are required for further work in forestry.

*Senior Year*

Forestry 211 .....	3	Forestry 212 .....	3
Forestry 251 .....	2	Forestry 224 .....	4
Forestry 253 .....	4	Forestry 232 .....	3
Forestry 259 .....	3	Forestry 252 .....	2
Forestry 261 .....	3	Forestry 264 .....	3
Forestry 273 .....	2		
	<hr/> 17		<hr/> 15

All elective courses must be selected in consultation with the Forestry Staff.

## COURSES OF INSTRUCTION

### TRINITY COLLEGE THE WOMAN'S COLLEGE

*Note: Courses primarily for Freshmen are numbered from 1 to 49; those primarily for Sophomores are numbered from 50 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and Graduates from 200 to 299. The amount of credit for each course is given in semester-hours following the description of the course.*

*Odd-numbered courses are offered in the fall semester, and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.*

*(This is a condensed description of courses. For a full description see the Bulletin of Undergraduate Instruction.)*

#### COURSES OPEN PRIMARILY TO FRESHMEN

Botany 1-2	History 1-2
Chemistry 1-2	Latin 1-2, 3, 4, 15, 16, 41, 42
Economics 11	Mathematics 1, 2, 3-4, 7, 8, 9-10
Education 4, 8	Physics 1-2
English 1-2	Political Science 21-22
Fine Arts 1-2	Religion 1-2
French 1-2, 3-4	Spanish 1-2, 3-4
German 1-2, 3-4	Zoology 1-2

#### BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSOCIATE PROFESSOR KRAMER, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSOR WOLF; ASSOCIATE PROFESSOR HARRAR; ASSISTANT PROFESSORS ADDOMS, OOSTING, AND PERRY; DR. ANDERSON; AND ASSISTANTS

1. General Botany.—4 s.h. STAFF

2. General Botany.—Prerequisite: Botany 1. 4 s.h. STAFF

51. Growth.—Prerequisite: one year of botany. 4 s.h.  
ASSISTANT PROFESSOR ADDOMS

52. Plant Identification.—Prerequisite: one year of botany. 4 s.h.  
PROFESSOR BLOMQUIST

55. Morphology and Anatomy of Vascular Plants.—Prerequisite: one year of botany. 4 s.h.  
ASSISTANT PROFESSOR OOSTING

101. Principles of Heredity.—Prerequisite: one course in biology, botany, or zoology. High-school or college algebra recommended. 3 or 4 s.h.  
ASSISTANT PROFESSOR PERRY

103. General Bacteriology.—Prerequisite: one year of botany or zoology, or equivalent. 4 s.h.  
PROFESSOR WOLF

104. The Structure and Identification of Lower Plants.—Prerequisite: one year of botany. 4 s.h.  
DR. ANDERSON

151. **Introductory Plant Physiology.**—Prerequisite: Botany 1, 2, or equivalent; one year of chemistry recommended. 4 s.h.

ASSOCIATE PROFESSOR KRAMER

156. **Plant Ecology.**—Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

202. **Genetics.**—Prerequisites: one year of botany or zoology, or equivalent, and college algebra. 4 s.h.

ASSISTANT PROFESSOR PERRY

[Not offered in 1939-40]

203. **Plant Cytology.**—Prerequisite: two years of botany. 4 s.h.

[Not offered in 1939-40]

DR. ANDERSON

204. **Advanced Plant Anatomy.**—Prerequisite: Botany 55 or equivalent. 4 s.h.

ASSISTANT PROFESSOR ADDOMS

216. **Botanical Microtechnique.**—Prerequisite: three semesters of botany. 4 s.h.

DR. ANDERSON

[Offered in the fall]

221. **Structure and Classification of Fungi.**—Prerequisite: two years of botany. 4 s.h.

PROFESSOR WOLF

225, 226. **Special Problems.**—Students with adequate training may do special work in the following fields:

a. **Bacteriology, Mycology and Plant Pathology.**

PROFESSOR WOLF

b. **Cytology.**

DR. ANDERSON

c. **Ecology.**

ASSISTANT PROFESSOR OOSTING

d. **Genetics.**

ASSISTANT PROFESSOR PERRY

e. **Morphology and Anatomy of Higher Groups.**

ASSOCIATE PROFESSOR HARRAR, ASSISTANT  
PROFESSORS ADDOMS AND OOSTING

f. **Morphology and Taxonomy of Lower Groups.**

PROFESSOR BLOMQUIST AND DR. ANDERSON

g. **Physiology.**

ASSOCIATE PROFESSOR KRAMER AND  
ASSISTANT PROFESSOR ADDOMS

h. **Plant Microchemistry.**

ASSISTANT PROFESSOR ADDOMS

i. **Taxonomy of Higher Groups.**

PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151, or equivalent; organic chemistry recommended. 4 s.h.

ASSOCIATE PROFESSOR KRAMER

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52, or equivalent. 4 s.h.

PROFESSOR BLOMQUIST

256. **Field Ecology.**—Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

#### FOREST BOTANY

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 4 s.h.

PROFESSOR WOLF

253. **Dendrology.**—Prerequisite: two years of botany. 4 s.h.

ASSOCIATE PROFESSOR HARRAR

Related course which may be counted toward a major in Botany:

Zoology 110.—2 s.h.

DR. JOHNSON

**DEPARTMENTAL MAJOR**

*Prerequisites:* Botany 1 and 2.

*Major Requirements:* Twenty-one to twenty-four hours of work including courses 52, 55, and 104. The remaining hours may be selected from any other courses in the Department for which the student is eligible, subject to the approval of the Departmental Adviser.

**DEPARTMENTAL HONORS PROGRAM****I. *Prerequisites:***

- a. Botany 1-2.
- b. A year course in each of two other sciences acceptable to the Departmental Committee.

**II. *Major.***

- a. Scheduled Courses.

At least four courses (14-16 semester-hours).

- b. Tutorial Work (8 semester-hours).

This will include reading courses in such fields as History of Botany and Theories of Biology, or in special fields; or a special problem; or both. Tutorial work shall extend through the Senior year. The student will report to his Adviser regularly for conference on this work. He may be asked to prepare written reports on the reading courses and he must make such a report on his problem before he becomes eligible for the General Honors examination.

**III. *Related Work.***

The remainder of the student's program shall consist of related courses in at least two other departments.

**IV. *General Honors Examinations* (4 semester-hours).**

At the end of the Senior year written and oral examinations will be given to test the student's grasp of the various fields of botanical knowledge and investigation.

**CHEMISTRY**

PROFESSOR GROSS, CHAIRMAN; PROFESSOR VOSBURGH, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs. BRADSHER, BROWN, HILL, AND HOBBS; AND ASSISTANTS

**1-2. General Inorganic Chemistry.**—It is desirable, though not required, that students taking this course shall have taken elementary physics either in high school or in college. One lecture, two recitations, and three laboratory hours, throughout the year. 8 s.h.

PROFESSOR WILSON AND DR. HILL WITH PROFESSOR GROSS; ASSISTANT PROFESSOR SAYLOR; DRs. BRADSHER, BROWN, AND HOBBS; AND ASSISTANTS

**61. Qualitative Analysis.**—*Prerequisites:* Chemistry 1-2 and algebra. 4 s.h.  
PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR;  
DR. HOBBS; AND ASSISTANTS

**70. Quantitative Analysis.**—*Prerequisite:* Chemistry 61. Analytic geometry and college physics are desirable but not required. 4 s.h.

PROFESSOR VOSBURGH; ASSISTANT PROFESSOR SAYLOR;  
DR. HOBBS; AND ASSISTANTS

81. **Introductory Food Chemistry.**—Prerequisites: Chemistry 1-2 or equivalent. 3 s.h.  
 PROFESSOR WILSON AND DR. BROWN

142. **Nutrition.**—Prerequisite: course 81 or its equivalent. 3 s.h.  
 PROFESSOR WILSON, DR. BROWN AND ASSISTANT

151-152. **Organic Chemistry.**—Prerequisites: Chemistry 61 and 70. Course 151 is prerequisite for 152. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSOR HAUSER;  
 DRs. BRADSHER AND BROWN; AND ASSISTANTS

153-154. **Intermediate Chemistry Laboratory.**—2 or 4 s.h.

PROFESSOR VOSBURGH AND OTHER MEMBERS OF THE STAFF

173-174. **Honors Seminar.**—2 s.h.

PROFESSOR VOSBURGH

215-216. **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h.  
 PROFESSOR VOSBURGH AND DR. HILL  
 [Not offered in 1939-40]

231-232. **Advanced Quantitative Analysis.**—Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. 6 s.h.

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
 ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

241. **Physiological Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON AND ASSISTANT

242. **Metabolism.**—Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.

PROFESSOR WILSON AND ASSISTANT

253-254. **Advanced Organic Chemistry.**—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT PROFESSOR  
 HAUSER, AND DR. BROWN

261-262. **Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR AND DR. HOBBS

271. **Introduction to Research.**—1 s.h.

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW

273-274. **Seminar.**—2 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
 ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
 DRs. BRADSHER, BROWN, HILL AND HOBBS

275-276. **Research.**—3 or 6 s.h.

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR  
 BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
 DRs. BRADSHER, BROWN, HILL AND HOBBS

#### DEPARTMENTAL MAJORS

A. For the degree of A.B.

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152 and 261-262. With the permission of the Department other chemistry courses giving a total of not less than 6 s.h. credit may be substituted for Chemistry 261-262.



**B. For the degree of B.S.**

*Prerequisites:* Chemistry 1-2, Mathematics 7-8 (or equivalent).

*Major Requirements:* Chemistry 61-70, 151-152; 261-262 and 3 to 6 s.h. of chemistry to be elected with the approval of the Department.

**DEPARTMENTAL HONORS PROGRAM**

*Prerequisites:* Chemistry 61-70; Mathematics, 6 s.h., and Physics 1-2 or 51-52 or equivalent.

Honors Program: Chemistry 151-152, 153-154, 173-174, 261-262, and 275-276; Mathematics through integral calculus; Physics, 6 s.h., normally course 59-60; electives, subject to the approval of the Departmental Honors Committee, 20 s.h., (or enough to satisfy the requirements for graduation) of which at least 6 s.h. must be in the science division. Students primarily interested in the physical sciences should normally take Physics 103 and 104 or Geology 101-102 to satisfy this requirement. Students interested in the biological sciences may take work in botany or zoology.

Chemistry 153-154 is a special laboratory course in which there is individual attention to and supervision of the experimental project of each student.

Chemistry 173-174 is a seminar primarily for Honors students of both Junior and Senior years. The purpose is to give practice in the use of chemical literature and the oral presentation of assigned topics.

In Chemistry 275-276 an experimental research project is carried out under the direction of a member of the staff, the object being to gain acquaintance with the aims and methods of research. A written report on the research is required.

A general examination in chemistry is given at the end of both Junior and Senior years.

**ECONOMICS AND BUSINESS ADMINISTRATION**

PROFESSOR GLASSON, CHAIRMAN; PROFESSOR HAMILTON, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR DE VYVER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS HOOVER, SPENGLER, AND VON BECKERATH; ASSISTANT PROFESSORS BLACK, EITEMAN, LANDON, LEMERT, RATCHFORD, SHIELDS, SMITH, AND SPRINGER; DRs. BERRY, DELAPLANE, KEECH, OLIVER, AND WELFLING; MESSRS. BURTT (PART-TIME), HARGREAVES (PART-TIME), HAVENS, O'LEARY (PART-TIME)

**ECONOMICS****51-52. Principles of Economics.—6 s.h.**

PROFESSOR SPENGLER; ASSISTANT PROFESSORS LANDON AND SMITH; DRs. BERRY, DELAPLANE, OLIVER, AND WELFLING; MESSRS. BURTT, HARGREAVES, AND O'LEARY

**103. Transportation.**—Collateral reading and the preparation of papers are required. 3 s.h. ASSISTANT PROFESSOR LANDON

**107. Conservation.**—3 s.h. ASSISTANT PROFESSOR LEMERT

**138. Business Statistics.**—3 sh. ASSISTANT PROFESSOR SMITH; DRs. BERRY AND WELFLING

**143. Corporation Finance.**—3 s.h. ASSISTANT PROFESSORS EITEMAN AND SMITH, AND DR. OLIVER

144. Investments.—Prerequisite: Economics 57-58 and 143. 3 s.h.  
ASSISTANT PROFESSOR EITEMAN
169. Economics of Consumption.—3 s.h. ASSISTANT PROFESSOR SMITH
187. Public Finance.—3 s.h. ASSISTANT PROFESSOR RATCHFORD
- 203-204. Money, Banking, and Credit.—6 s.h.  
PROFESSOR GLASSON, ASSISTANT PROFESSOR RATCHFORD,  
DRS. DELAPLANE, OLIVER, AND WELFLING
217. Business Cycles.—3 s.h. PROFESSOR SPENGLER
218. Population Problems and the Standard of Living.—3 s.h.  
PROFESSOR SPENGLER
230. Public Debts in the United States.—3 s.h.  
ASSISTANT PROFESSOR RATCHFORD
231. The Economic History of Modern Europe.—3 s.h.  
PROFESSOR HAMILTON
232. The Economic History of the United States.—3 s.h.  
PROFESSOR HAMILTON
233. State and Local Finance.—Prerequisite: Economics 187 or equivalent.  
3 s.h. ASSISTANT PROFESSOR RATCHFORD  
[Not offered in 1939-40]
234. Federal Finance.—Prerequisite: Economics 187 or equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR RATCHFORD
- 237-238. Statistical Methods.—Prerequisite: Business Statistics 138 or  
consent of the instructor. 6 s.h. ASSISTANT PROFESSOR SPRINGER
239. Prices.—3 s.h. PROFESSOR HAMILTON
- 241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER
- 245-246. Problems of Modern Industrialism.—6 s.h.  
PROFESSOR VON BECKERATH
253. Labor Problems.—3 s.h. ASSOCIATE PROFESSOR DE VYVER
256. Labor Legislation.—Prerequisite: Economics 253, or with the con-  
sent of the instructor. 3 s.h. ASSOCIATE PROFESSOR DE VYVER
260. Social Insurance.—3 s.h. ASSOCIATE PROFESSOR DE VYVER  
[Not offered in 1939-40]
265. International Trade and Tariff Policies.—3 s.h.  
PROFESSOR VON BECKERATH
266. International Finance.—3 s.h. PROFESSOR HAMILTON
268. Competitive versus Monopolistic Enterprise.—3 s.h.  
PROFESSOR VON BECKERATH

## BUSINESS ADMINISTRATION

### A. ACCOUNTANCY

- 57-58. Principles of Accounting.—6 s.h.  
ASSOCIATE PROFESSOR DE VYVER, ASSISTANT PROFESSORS BLACK,  
EITEMAN, AND SHIELDS; DR. KEECH; MR. HAVENS

- 171-172. Advanced Accounting.—6 s.h. ASSISTANT PROFESSOR SHIELDS
- 173-174. Auditing, Theory and Practice.—6 s.h.  
ASSISTANT PROFESSOR BLACK
- 175-176. C. P. A. Review.—6 s.h. ASSISTANT PROFESSOR BLACK
177. Income-Tax Accounting.—3 s.h. ASSISTANT PROFESSOR SHIELDS
178. Modern Accounting Systems.—3 s.h. ASSISTANT PROFESSOR SHIELDS
- 275-276. Advanced Industrial Accounting and Management.—Courses 57-  
58 and 171-172 are ordinarily prerequisites for this course. 6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR BLACK

## B. COMMERCE AND INDUSTRY

11. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT
105. Industrial Management.—3 s.h. DR. KEECH
115. Economic Geography.—3 s.h. ASSISTANT PROFESSOR LEMERT
116. Economic Geography and Industrial Organization.—Prerequisite:  
course 115. 3 s.h. ASSISTANT PROFESSOR LEMERT
118. Economic Geography of the South Atlantic States.—Prerequisites:  
Economics 11, Economic Geography 115, or with consent of the instructor.  
3 s.h. ASSISTANT PROFESSOR LEMERT
158. Insurance.—3 s.h. DR. KEECH
168. Marketing.—Collateral reading and the preparation of papers are  
required. 3 s.h. ASSISTANT PROFESSOR LANDON
- 181-182. Business Law.—6 s.h. ASSISTANT PROFESSOR SPRINGER
184. Commercial Law for Accountants.—3 s.h.  
ASSISTANT PROFESSOR BLACK

## DEPARTMENTAL MAJOR

*Prerequisites:* All students who desire to major in the Department of Economics are required to take as a prerequisite courses 51-52, Principles of Economics. Ordinarily this prerequisite work should be taken in the Sophomore year.

*Major Requirements:* Students who major in Economics are required to take twenty-four semester-hours of work in Economics in the Junior and Senior years. At least twelve semester-hours of this work must be chosen from Senior-Graduate courses offered in Economics. The remainder of the twenty-four hours may be chosen from courses offered in Economics for Juniors and Seniors. Students may elect six hours of Accounting and six hours in Commerce and Industry toward the completion of this requirement. The selection of courses should be approved by an appointed representative of the Departmental Faculty.

*Cognate Courses:*

Forestry 278. Economics of Forestry.

History 219-220. The History of the European Proletariat.

Political Science 207. American Constitutional Law and Theory.

Political Science 209. State and Local Government in the United States.

Political Science 271. Socio-Politics and the Capitalistic System.

Sociology 219. Urban Sociology.

Sociology 220. Rural Sociology.

Sociology 227. Emigration and Immigration.

#### DEPARTMENTAL HONORS PROGRAM

(a) Prerequisite: The minimum requirement for admission to Honors in Economics is the completion of Economics 51-52 and Political Science 61-62, with at least a grade of "B."

(b) Honors Readings:

1. *History of Economic Thought*: A consideration of the principal economic writers showing the development of modern economic thought.

DR. WELFLING

2. *Social Economics*: The problems of social adjustment to modern economic institutions.

ASSOCIATE PROFESSOR DE VYVER

3. *American Economic Organization*: The development and operation of the institutions of modern American capitalism.

ASSOCIATE PROFESSOR DE VYVER

(c) One or two Honors Readings in Political Science must be taken by all honors candidates in Economics.

(d) Thesis: A thesis is required for each honors candidate. This is normally to be brief and during the Senior year and is due by May 15th.

(e) Course work to complete a minimum of 60 hours for the Junior and Senior year is required. This will require 27 or 33 hours of course work depending upon whether the student elects one or two honors readings in Political Science.

(f) Examinations: An oral or written examination will be given at the conclusion of each reading in Economics and Political Science and a general oral and written examination will be given at the end of the Senior year.

#### EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR PROCTOR, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR EASLEY, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BROWNELL, CARR, AND CHILDS; ASSOCIATE PROFESSOR SCATES; DR. WATSON; MR. EICHER (PART-TIME); MRS. SMITH; AND ASSISTANTS

1. Orientation Course in Study and Study Habits.—3 s.h.

ASSISTANT PROFESSOR EASLEY AND DR. WATSON

4. Introductory Course in History of Education.—3 s.h.

PROFESSOR HOLTON AND MR. EICHER

8. The Learning Process.—3 s.h.

PROFESSORS BROWNELL AND CHILDS; ASSISTANT PROFESSOR EASLEY, DR. WATSON, AND MR. EICHER

54. Introductory Course in History of Education.—3 s.h.

PROFESSORS HOLTON AND CARR

58. The Learning Process.—3 s.h.

ASSISTANT PROFESSOR EASLEY

68. Mental Hygiene of the School Child.—3 s.h.

ASSISTANT PROFESSOR EASLEY

83. Current Trends in American Public School Organization.—3 s.h.

PROFESSOR PROCTOR

101. Introduction to Teaching.—3 s.h.

PROFESSOR CARR

103. School Organization and Administration for the Classroom Teacher.—3 s.h. PROFESSOR PROCTOR
104. History of Education in the United States.—3 s.h. ASSOCIATE PROFESSOR SCATES
105. Introduction to Educational Sociology.—3 s.h. PROFESSOR CHILDS
112. Methods of Teaching and Presentation of Subject Matter in the Primary Schools.—Prerequisite: course 101. 4 s.h. PROFESSOR CARR  
[Not offered in 1939-40 unless as many as eight students enroll.]
- A. Integrated Art in the Public School.—(3 points professional credit.) MRS. MASON
- B. Industrial Art in the Public School.—(3 points professional credit.) MRS. MASON
- C. Public-School Music.—(3 points professional credit.) MR. BRUINSMA  
[Not offered in 1939-40]
- 115-116. Secondary Education: Principles and Practice.—6 or 8 s.h. PROFESSOR CHILDS AND ASSISTANTS
118. Educational Implications of Genetic Psychology.—3 s.h. PROFESSOR BROWNELL
122. Methods of Teaching and Presentation of Subject Matter in the Grammar Grades.—Prerequisite: course 101. 4 s.h. PROFESSOR CARR
131. Observation and Practice-Teaching.—1 s.h. PROFESSOR CARR
132. Materials and Methods in Health Education.—3 s.h. ASSISTANT PROFESSOR AYCOCK
136. The Teaching of High-School English.—3 s.h. ASSISTANT PROFESSOR JORDAN
142. Children's Literature.—3 s.h. PROFESSOR CARR
155. The Teaching of Secondary School Latin.—3 s.h. ASSISTANT PROFESSOR GATES
158. Educational Measurements.—3 s.h. ASSOCIATE PROFESSOR SCATES
170. The Social and Economic Position of Women.—2 s.h. MRS. SMITH
176. Materials and Methods in High-School Science.—Prerequisite: at least eighteen hours of science in college. 3 s.h. PROFESSOR CHILDS  
[Not offered in 1939-40]
200. Introduction to the Philosophy of Education.—3 s.h. PROFESSOR HOLTON  
[Not offered in 1939-40]
203. Principles of School Administration.—Prerequisite: six semester-hours of courses 103 and 58 or their equivalent. 3 s.h. PROFESSOR PROCTOR
205. Curriculum Problems in Secondary Education.—3 s.h. PROFESSOR CHILDS  
[Not offered in 1939-40]
206. Sociological Foundations of the Secondary School Subjects.—Prerequisite: general sociology or approved work in education, including course 105. 3 s.h. PROFESSOR CHILDS

207. **Technique of Teaching.**—3 s.h. PROFESSOR CARR
208. **Mental Tests and Applications.**—Prerequisite: course 258 or six semester-hours of other work in educational psychology or psychology. 3 s.h.  
ASSISTANT PROFESSOR EASLEY
209. **Statistical Methods Applied to Education.**—3 s.h.  
ASSISTANT PROFESSOR EASLEY
212. **Psychology of the Elementary School Subjects.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR CARR
214. **History of Education in the United States.**—3 s.h.  
PROFESSOR HOLTON
216. **Psychological Principles of Secondary Education.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR CHILDS
217. **Advanced Educational Psychology.**—3 s.h.  
ASSISTANT PROFESSOR EASLEY
218. **Educational Implications of Genetic Psychology.**—Prerequisite: six semester-hours of psychology or educational psychology. 3 s.h.  
PROFESSOR BROWNELL
219. **Experimental Education.**—3 s.h. PROFESSOR BROWNELL
222. **The Curriculum and Materials of the Elementary Grades.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR CARR
225. **The Teaching of History and the Social Studies.**—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER
227. **The Psychology of Learning: Problems.**—3 s.h.  
ASSISTANT PROFESSOR EASLEY
228. **The Psychology of Learning: Theoretical and Experimental.**—Prerequisite: course 227 or its equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR EASLEY
232. **Elementary School Supervision.**—3 s.h. PROFESSOR CARR
233. **Administrative Pupil-Accounting.**—3 s.h. PROFESSOR PROCTOR
234. **Secondary School Organization and Administration.**—3 s.h.  
PROFESSOR PROCTOR
237. **Investigations in Reading.**—3 s.h. PROFESSOR CARR
244. **Studies in the Historical Development of Public School Administration.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR HOLTON
246. **The Teaching of Mathematics.**—3 s.h.  
[Not offered unless enrollment justifies.] PROFESSOR RANKIN
247. **Investigations in Arithmetic.**—3 s.h. PROFESSOR BROWNELL
253. **Legal Phases of School Administration.**—3 s.h. PROFESSOR HOLTON  
[Not offered in 1939-40]
254. **History of Secondary Education in the United States.**—3 s.h.  
PROFESSOR PROCTOR



258. Educational Measurements.—Prerequisite: twelve semester-hours in the Department including a course in educational psychology. 3 s.h.

ASSOCIATE PROFESSOR SCATES

264. Recent Movements in American Education.—3 s.h.

[Not offered in 1939-40]

PROFESSOR HOLTON

266. The Teaching of High-School French.—3 s.h.

PROFESSOR WEBB

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h.

PROFESSOR CARR

#### DEPARTMENTAL MAJOR

A major in the Department of Education consists of twenty-four semester-hours of work above the Freshman year, not including any work listed as primarily for Freshmen, and including at least six semester-hours of courses limited to Seniors or to Seniors and Graduates. Students, however, who obtain credit for courses 4 and 8 will be permitted to complete a major by taking twenty hours of additional work in the Department, provided twelve hours are courses limited to Seniors or to Seniors and Graduates. Before graduation, majors in the Department must have credit for at least one course in educational psychology, such as 8, 58, or 68, and one course in history and philosophy of education, or in educational sociology. The remainder of their work may be elected from courses listed for Sophomores, Juniors, and Seniors, provided at least six semester-hours of the course work are taken from courses listed for Seniors and Graduates, and provided that not more than six semester-hours may be of courses numbered below 100.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in education who have passed with grade of "B" or better in their Freshman or Sophomore years six semester-hours of education.

Candidates for Honors in education are required to take in the Junior year twelve semester-hours in the department and to make an average of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of twelve semester-hours of supervised reading in education, the candidate must elect with the approval of the Departmental Committee on Honors six semester-hours of work from the courses in education offered in the 200 group, on which he is required to make a grade of "B" or better and twelve semester-hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester-hours shall be devoted to the History of Education; the remaining six semester-hours shall be devoted to Educational Psychology, or Secondary Education, or Elementary Education, or Public School Administration as the student may elect and the Departmental Committee approve. In exceptional cases, qualified students may be permitted to take six semester-hours of the supervised reading during the Junior year and increase the amount of course work in the department the Senior year.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the department selected by the Departmental Committee.

## ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSOR GREENE, DIRECTOR OF UNDERGRADUATE STUDIES; ASSOCIATE PROFESSOR PATTON, SUPERVISOR OF FRESHMAN STUDIES; PROFESSORS BAUM, GILBERT, GOHDES, HUBBELL, IRVING, AND WHITE; ASSOCIATE PROFESSORS BLACKBURN AND MITCHELL; ASSISTANT PROFESSORS ALLEN, ANDERSON, HERRING, JORDAN, SANDERS, SUGDEN, VANCE, WARD, WEST, AND WHITE; DRs. CARPENTER (PART-TIME), HARWELL, JOHNSON, AND POTEAT; MESSRS. FITZGERALD, LEWIS, AND MARTIN

## COMPOSITION

## 1-2. English Composition.—6 s.h.

PROFESSOR IRVING; ASSOCIATE PROFESSORS BLACKBURN AND PATTON; ASSISTANT PROFESSORS ALLEN, ANDERSON, SANDERS, SUGDEN, VANCE, WARD, AND WHITE; DRs. CARPENTER, HARWELL, JOHNSON, AND POTEAT; MESSRS. FITZGERALD, MARTIN, AND STROVEN

## 53. English Composition.—3 s.h.

ASSISTANT PROFESSOR JORDAN

## 54. Composition.—3 s.h.

ASSISTANT PROFESSOR JORDAN

## 65-66. Approaches to Imaginative Writing.—6 s.h.

ASSISTANT PROFESSOR SANDERS

## 101-102. Composition.—6 s.h.

ASSOCIATE PROFESSOR MITCHELL

## 103-104. Composition.—6 s.h.

ASSOCIATE PROFESSOR BLACKBURN

## 107-108. Journalism.

ASSISTANT PROFESSOR SUGDEN

## 133-134. Verse Writing.

PROFESSOR WHITE

## DRAMATICS AND SPEECH

## 105-106. Playwriting.—6 s.h.

ASSISTANT PROFESSOR WEST

## 119-120. History of the Theater.—6 s.h.

ASSISTANT PROFESSOR WEST

## 121-122. Play Production.—6 s.h.

ASSISTANT PROFESSOR WEST

## 139-140. The Speaking Voice.—6 s.h.

ASSISTANT PROFESSOR WEST

FOR SOPHOMORES, JUNIORS, AND SENIORS

## 151. Speech.—3 s.h.

ASSISTANT PROFESSOR HERRING AND MR. LEWIS

## 152. Argumentation.—Prerequisite: English 151. 3 s.h.

ASSISTANT PROFESSOR HERRING AND MR. LEWIS

## ENGLISH AND AMERICAN LITERATURE AND LANGUAGE

## 55-56. Representative Writers.—6 s.h.

PROFESSOR IRVING, ASSOCIATE PROFESSORS BLACKBURN AND PATTON, ASSISTANT PROFESSORS SANDERS, SUGDEN, VANCE, WARD, AND DR. POTEAT

## 63-64. A Survey of English Poetry.—6 s.h.

ASSOCIATE PROFESSOR MITCHELL

## 123-124. Shakespeare.—6 s.h.

PROFESSOR BROWN

- 125-126. English Literature, 1789-1832.—6 s.h.  
PROFESSOR WHITE, ASSOCIATE PROFESSOR PATTON,  
AND ASSISTANT PROFESSOR WHITE
- 127-128. English Prose Literature, 1832-1900.—6 s.h. PROFESSOR GREENE
- 129-130. The History of the Novel in England.—6 s.h.  
ASSOCIATE PROFESSOR MITCHELL AND ASSISTANT PROFESSOR VANCE
131. The Drama, 1770-1832.—3 s.h. PROFESSOR HUBBELL  
[Not offered in 1939-40]
- 133-134. Verse Writing.—6 s.h. PROFESSOR WHITE
- 137-138. American Literature.—6 s.h.  
PROFESSORS HUBBELL AND GOHDES AND ASSISTANT PROFESSOR ANDERSON
142. Materials and Methods in High-School English.—*Second Semester.*  
ASSISTANT PROFESSOR JORDAN
- 143-144. English Literature, 1550-1625.—6 s.h. PROFESSOR GREENE  
[Not offered in 1939-40]
- 145-146. English Poetry, 1832-1900.—6 s.h. ASSISTANT PROFESSOR SANDERS  
[Not offered in 1939-40]
- 147-148. Contemporary Poetry.—6 s.h. ASSISTANT PROFESSOR ANDERSON
- 149-150. English Literature, 1625-1700.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WARD
- 153-154. Comparative Literature.—6 s.h. PROFESSOR IRVING  
[Not offered in 1939-40]
- 155-156. Contemporary Drama.—6 s.h. ASSISTANT PROFESSOR WHITE  
[Not offered in 1939-40]
- 157-158. Contemporary Novel.—6 s.h.  
ASSISTANT PROFESSORS ANDERSON AND WHITE
- 159-160. English Literary Biography.—6 s.h. PROFESSOR WHITE  
[Not offered in 1939-40]
- 161-162. The History of the English Language and Historical English  
Grammar. PROFESSORS BROWN AND GREENE
- 201-202. Anglo-Saxon.—6 s.h. PROFESSOR BROWN
- 203-204. Chaucer.—6 s.h. PROFESSOR BAUM
- 207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM  
[Not offered in 1939-40]
- 209-210. Non-Dramatic Literature, 1625-1700.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WARD
211. Non-Dramatic Literature of the Early Seventeenth Century.—3 s.h.  
ASSISTANT PROFESSOR ALLEN
- 213-214. Folk-Lore and Folk-Songs.—6 s.h. PROFESSOR BROWN  
[In 1939-40 this course is not offered, but the material of the course is  
offered as seminar 349-350a.]
- 215-216. Elizabethan Drama.—6 s.h.  
PROFESSOR GILBERT AND ASSISTANT PROFESSOR ALLEN

217. Spenser.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]

218. Milton.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]

219-220. English Prose and Poetry of the Eighteenth Century.—6 s.h.  
PROFESSOR IRVING

[In 1939-40 this course is not offered, but the material of the course is offered as seminar 349-350g.]

221. Restoration and Eighteenth Century Drama.—3 s.h.  
ASSISTANT PROFESSOR WARD  
[In 1939-40 this course is offered in the second semester.]

225-226. Studies in Victorian Literature.—6 s.h. PROFESSOR BAUM

227-228. Literary Criticism.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]

229-230. American Literature, 1800-1870.—6 s.h.  
PROFESSORS HUBBELL AND GOHDES AND  
ASSISTANT PROFESSOR ANDERSON

231-232. Special Studies in American Authors.—6 s.h. PROFESSOR GOHDES

233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES

239-240. Shakespeare Problems.—6 s.h. PROFESSOR BROWN  
[Not offered in 1939-40]

269-270. Southern Literature and Culture.—6 s.h. PROFESSOR HUBBELL

#### DEPARTMENTAL MAJOR

*Prerequisites:* English 1 and 2.

*Requirements for the Major:* A major in English consists of twenty-four semester-hours of credit distributed as follows: *six* hours must be earned in English 55-56 or in English 63-64 and *eighteen* hours credit in courses in English and American literature of the 100 or 200 group.

#### DEPARTMENTAL HONORS PROGRAM

(a) Prerequisite: The minimum requirement for admission to Honors in English is the completion of a Sophomore course in English literature on which the student makes at least a grade of "B."

(b) Honors Readings:

(1) *The Elizabethan Period and the First Half of the Seventeenth Century.*—The Bible; Shakespeare and Elizabethan drama; Spenser; Donne; Bacon and other writers of prose. PROFESSOR IRVING

(2) *English Literature from the Restoration to the Death of Pope.*—Milton; Dryden; the Comedy of Manners; Swift; Defoe; Addison and Steele; Pope. PROFESSOR IRVING

(3) *English Literature, 1744-1832.*—Fielding; Johnson; Wordsworth; Byron; Shelley; Keats; Lamb, Hazlitt. ASSISTANT PROFESSOR BLACKBURN

(4) *English Literature, 1832-1900.*—Carlyle; Tennyson; Browning; Arnold (poetry and prose); Ruskin; Morris; Pater. ASSISTANT PROFESSOR BLACKBURN

(c) Two year-courses in the Department of English (under certain conditions work in related departments may be substituted for this requirement.).

(d) Four year-courses in related departments.

(c) General Honors Examinations: Four comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the four periods of English literature studied. Students may substitute for one of the written examinations a special thesis on a topic correlating English literature with a related field of knowledge or on any other approved topic.

### FINE ARTS

ASSISTANT PROFESSOR McDONALD, CHAIRMAN; ASSISTANT PROFESSOR HALL,  
DIRECTOR OF UNDERGRADUATE STUDIES; DR. SUNDERLAND,  
MISS HAMLIN

- 1-2. History of Art.—6 s.h.  
1, ASSISTANT PROFESSOR McDONALD; 2, DR. SUNDERLAND
- 51-52. History of Art.—6 s.h.  
51, ASSISTANT PROFESSOR HALL; 52, ASSISTANT PROFESSOR McDONALD
- 53-54. Theory of Representation and Design.—4 s.h. DR. SUNDERLAND
92. Oriental Art.—3 s.h. ASSISTANT PROFESSOR McDONALD
93. American Painting and Sculpture.—3 s.h. DR. SUNDERLAND  
[Not offered in 1939-40]
101. Introduction to Medieval Art.—3 s.h.  
ASSISTANT PROFESSOR McDONALD
102. Development of Gothic Art.—3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR McDONALD
103. Renaissance and Baroque Architecture: Italy.—3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR HALL
104. Renaissance and Baroque Architecture: Spain and the North.—3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR HALL
105. European Architecture since 1700.—3 s.h.  
ASSISTANT PROFESSOR HALL
106. Architecture of the Americas.—3 s.h. ASSISTANT PROFESSOR HALL
107. Renaissance Painting and Sculpture: Italy.—3 s.h. DR. SUNDERLAND
108. Renaissance Painting and Sculpture: The North.—3 s.h.  
[Not offered in 1939-40] DR. SUNDERLAND
109. Seventeenth Century Painting.—3 s.h. DR. SUNDERLAND
110. Painting and Sculpture since 1700.—3 s.h. DR. SUNDERLAND
120. English Architecture. ASSISTANT PROFESSOR HALL

#### COURSES OFFERED IN OTHER DEPARTMENTS ACCREDITED IN THIS DEPARTMENT

- Greek 141-142. Greek Art.  
Greek 247-248. Greek Archaeology.  
Latin 115. Architecture of Ancient Rome.  
Latin 215. Introduction to Roman Art and Archaeology.  
Latin 216. Topography and Monuments of Ancient Rome.  
Philosophy 201-202. The Philosophy of Art.  
Philosophy 213-214. History of Aesthetics.  
Psychology 202. Psychology of Aesthetics.



## DEPARTMENTAL MAJOR

*Prerequisites:* 1-2 or 51-52.

*Major Requirements:* 53-54, and eighteen hours in courses chosen from the departmental offerings, or from courses in other departments accredited in this Department.

## FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN; PROFESSORS BEAL, SCHUMACHER, WACKERMAN, AND WOLF; ASSOCIATE PROFESSORS HARRAR, MAUGHAN, AND THOMSON; ASSISTANT PROFESSOR COILE

52. Principles of Forestry.—2 s.h. ASSOCIATE PROFESSOR THOMSON

S150. Forest Surveying.—Prerequisites: Civil Engineering S110, Plane Surveying, or equivalent. 5 s.h. ASSOCIATE PROFESSOR MAUGHAN

S151. Forest Mensuration.—4 s.h. PROFESSOR SCHUMACHER

211. Harvesting Forest Products.—3 s.h. PROFESSOR WACKERMAN

212. Forest Products Industries.—Prerequisite: Forestry 211 or equivalent. 3 s.h. PROFESSOR WACKERMAN

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF

232. Forest Entomology.—3 s.h. PROFESSOR BEAL

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h. PROFESSOR SCHUMACHER

252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h. PROFESSOR SCHUMACHER

253. Dendrology.—Prerequisite: one year of botany. 4 s.h. ASSOCIATE PROFESSOR HARRAR

257. Design of Forestry Experiments and Analysis of Data.—5 s.h. PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR

260. Timber Mechanics.—Prerequisites: Physics 1 and Forestry 259, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents. 3 s.h. ASSISTANT PROFESSOR COILE

264. Silvics.—Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261, or equivalents. 3 s.h. PROFESSOR KORSTIAN

266. Forest Seeding and Planting.—2 s.h. PROFESSOR KORSTIAN

273. Forest Protection.—2 s.h. ASSOCIATE PROFESSOR THOMSON

276. Forest Policy.—2 s.h. ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Prerequisite: at least one course in the principles of economics. 3 s.h. ASSOCIATE PROFESSOR THOMSON

284. Forest Improvements.—Prerequisite: Forestry S150 or equivalent. 3 s.h. ASSOCIATE PROFESSOR MAUGHAN



**GEOLOGY**

ASSOCIATE PROFESSOR BERRY

51. General Geology.—4 s.h. ASSOCIATE PROFESSOR BERRY

52. General Geology.—Prerequisite: Geology 51. 4 s.h.  
ASSOCIATE PROFESSOR BERRY

101-102. Mineralogy.—Prerequisite: Chemistry 1-2 (can be taken concurrently). 8 s.h. ASSOCIATE PROFESSOR BERRY

151. Economic Geology.—Prerequisite: Geology 101-102. 4 s.h.  
ASSOCIATE PROFESSOR BERRY

152. Introductory Paleontology.—Prerequisites: Geology 51, 52 and Zoology 1. 4 s.h. ASSOCIATE PROFESSOR BERRY

**DEPARTMENTAL MAJOR***Prerequisites:* None for Geology 51. Chemistry 1-2 for Geology 101-102; Zoology 1 for Geology 152.*Major Requirements:* Geology 51, 52, 101-102, 151, 152.**GERMAN LANGUAGE AND LITERATURE**PROFESSOR VOLLMER, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES;  
ASSISTANT PROFESSOR WILSON, SUPERVISOR OF FRESHMAN INSTRUCTION;  
PROFESSORS KRUMMEL AND WANNAMAKER; ASSISTANT PROFESSOR  
MAXWELL; DR. SHEARS; MR. YOUNG

1-2. Elementary German.—6 s.h. ASSISTANT PROFESSOR WILSON AND STAFF

3-4. Intermediate German.—6 s.h. PROFESSOR KRUMMEL AND STAFF

51-52. German Civilization.—6 s.h.

101-102. Elementary German.—6 s.h.

103-104. Intermediate German.—6 s.h.

107. Scientific German.—3 s.h.  
PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL108. Advanced Scientific and Medical German.—3 s.h.  
PROFESSOR WANNAMAKER AND ASSISTANT PROFESSOR MAXWELL109-110. German Prose Fiction.—6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1939-40]111-112. Introduction to the Classic Drama.—6 s.h.  
ASSISTANT PROFESSOR WILSON113-114. Nineteenth Century German Poetry.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WILSON115-116. German Drama of the Nineteenth Century.—6 s.h.  
PROFESSOR KRUMMEL119-120. Nibelungenlied to the Twentieth Century.—6 s.h.  
PROFESSOR VOLLMER121-122. Schiller.—6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

123-124. Modern German Short Story.—6 s.h. [Not offered in 1939-40]	DR. SHEARS
125-126. Contemporary German Literature.—6 s.h.	DR. SHEARS
127-128. Survey of Nineteenth Century German Literature.—6 s.h. [Not offered in 1939-40]	PROFESSOR VOLLMER
201-202. Goethe.—6 s.h.	PROFESSOR KRUMMEL
207-208. German Romanticism.—6 s.h.	PROFESSOR VOLLMER
209-210. Kleist, Grillparzer, and Hebbel.—6 s.h. [Not offered in 1939-40]	PROFESSOR KRUMMEL
211-212. Heinrich Heine and Young Germany.—6 s.h. [Not offered in 1939-40]	PROFESSOR VOLLMER
213-214. Literature of the Empire, 1871-1914.—6 s.h. [Not offered in 1939-40]	PROFESSOR VOLLMER

#### DEPARTMENTAL MAJOR

1. *Prerequisites*: German 1-2 and 3-4.

2. *Major Requirements*: Twenty-four hours in the German Department. Twelve of these must be selected from the 200 courses. The remaining twelve may be selected from German 51-52 and any courses in the 100 group except 101-102, 103-104 and 119-120.

#### DEPARTMENTAL HONORS PROGRAM

##### *Prerequisites*:

1. For admission to candidacy for Honors in German, a student must have begun the study of the language not later than the Freshman year in college.

2. A student who has completed at least 12 s.h. of College German by the end of the Sophomore year with a grade of "A" or "B" (equivalent courses in secondary schools or in other colleges may be presented as substitutes) is eligible to apply to the Departmental Committee for permission to read for Honors in German.

##### *General Rules*:

I. The departmental Honors program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester-hours of work.

II. *Work in the German Department*: The amount of work taken in the German Department shall be the equivalent of thirty-six semester-hours. Of this the work done in the Honors tutorials shall count twelve hours, six hours for the Junior year and six hours for the Senior year. The comprehensive examinations at the end of the Senior year are counted as part of this twelve semester-hours credit.

III. *Related Work*: The related work, which constitutes at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester-hours, must be distributed among not less than two departments, unless the Departmental Committee gives special permission for the student to take his related work in one department.

IV. *General Honors Examinations*: In May of the Senior year the candidate will be given a general written examination, conducted by his Adviser, on his Honors reading. A general oral examination, conducted by the Departmental Committee and presupposing a general knowledge of the development of German culture and civilization and a practical ability in the use of the German language, will also be conducted in May.

## GREEK

PROFESSOR PEPPLER, CHAIRMAN, AND DIRECTOR OF UNDERGRADUATE STUDIES; DR. TRUESDALE, SUPERVISOR OF FRESHMAN INSTRUCTION; ASSISTANT PROFESSOR WAY

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|--|---|
| 1-2. Course for Beginners.—6 s.h.                        | DR. TRUESDALE                                 |
| 53-54. Xenophon.—6 s.h.                                  | DR. TRUESDALE                                 |
| 105-106. Homer.—6 s.h.                                   | PROFESSOR PEPPLER AND DR. TRUESDALE           |
| 107-108. Plato.—Euripides.—6 s.h.                        | ASSISTANT PROFESSOR WAY                       |
| 115-116. Sight Reading in Greek.—4 s.h.                  | ASSISTANT PROFESSOR WAY AND DR. TRUESDALE     |
| 117-118. Greek Prose Composition.—3 s.h.                 | PROFESSOR PEPPLER                             |
| 121-122. Greek Literature in English Translation.—6 s.h. | PROFESSOR PEPPLER                             |
| 141-142. Greek Art.—6 s.h.                               | ASSISTANT PROFESSOR WAY                       |
| 131. History of Greece.—3 s.h.                           | ASSISTANT PROFESSOR WAY                       |
| 201-202. Greek Tragedy.—6 s.h.                           | PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY |
| 203-204. Homer; Pindar and Bacchylides.—6 s.h.           | DR. TRUESDALE                                 |
| 205-206. Greek Historians.—6 s.h.                        | PROFESSOR PEPPLER                             |
| 207-208. Greek Orators.—6 s.h.                           | ASSISTANT PROFESSOR WAY                       |
| 209-210. Plato.—6 s.h.                                   | ASSISTANT PROFESSOR WAY                       |
| 211-212. Aristophanes.—6 s.h.                            | PROFESSOR PEPPLER                             |
| 243. Athenian Topography.—3 s.h.                         | ASSISTANT PROFESSOR WAY                       |
| 244. Greek Epigraphy.—3 s.h.                             | ASSISTANT PROFESSOR WAY                       |
| 245. Greek Dialects.—3 s.h.                              | ASSISTANT PROFESSOR WAY                       |
| 246. Greek Historical Inscriptions.—3 s.h.               | ASSISTANT PROFESSOR WAY                       |
| 247-248. Greek Archaeology.—6 s.h.                       | ASSISTANT PROFESSOR WAY                       |

## DEPARTMENTAL MAJOR

*Prerequisite:* Greek 1-2.

*Major Requirements:* A candidate for a major in Greek must complete twenty-four semester-hours, including the following courses: Greek 53-54, 105-106, 107-108, 117-118, and 131.

## DEPARTMENTAL HONORS PROGRAM

For admission to candidacy for Honors in Greek the student must have completed Greek 1-2 and 53-54 or their equivalent.

Candidates for Honors must complete the following program of work:

- (a) Greek 105-106, 131, 141-142, 107-108, 122, and 117-118.
- (b) Four year-courses in related departments.
- (c) The Honors Reading. This is tutorial work in which the student is required to read assigned portions of Greek literature by himself, to write papers on topics related to his reading, and to meet the Honors Adviser in

weekly conferences for the discussion of the literature that he is reading independently. For the Honors Reading a credit of nine semester-hours is given.

Students who enter the University with advanced standing in Greek take higher courses in the language than those listed above.

At the end of the Senior year candidates for Honors must pass a comprehensive examination in writing on the subject matter covered by their studies in Greek.

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*Graduates of Duke University may attend the American School of Classical Studies at Athens, Greece, without charge for tuition, and are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## HEALTH AND PHYSICAL EDUCATION

### TRINITY COLLEGE

DIRECTOR OF PHYSICAL EDUCATION WADE; MESSRS. AYCOCK, CALDWELL, CAMERON, CARD, CHAMBERS, COOMBS, CRICHTON, FOGELMAN, GERARD, HAGLER, LEWIS, PERSONS, STANLEY, WARREN

### REQUIRED PHYSICAL EDUCATION FOR MEN

#### PHYSICAL EDUCATION CLASSES

1-2. Basketball.—1½ s.h.	MR. CALDWELL
3-4. Boxing.—1½ s.h.	MR. WARREN
5-6. Individual Corrective Activities.—1½ s.h.	MR. CHAMBERS
7-8. Handball.—1½ s.h.	MR. GERARD
9-10. Softball.—1½ s.h.	MR. STANLEY
11-12. Soccer Football.—1½ s.h.	MR. GERARD
13-14. Swimming.—1½ s.h.	MR. PERSONS
15-16. Touch Football.—1½ s.h.	MR. GERARD
17-18. Tennis.—1½ s.h.	MR. FOGLEMAN
19-20. Tumbling Stunts.—1½ s.h.	MR. CARD
21-22. Track.—1½ s.h.	MR. LEWIS
25-26. Wrestling.—1½ s.h.	MR. WARREN
27-28. Apparatus Stunts.—1½ s.h.	MR. CARD
55-56. Individual Corrective Activities.—1½ s.h.	MR. AYCOCK
59. Baseball.—1½ s.h.	MR. COOMBS
61-62. Golf.—1½ s.h.	MR. CRICHTON AND MR. HAGLER

### INTERCOLLEGIATE ATHLETIC SPORTS

#### FRESHMEN

30. Baseball.—1½ s.h.  
32. Basketball.—1½ s.h.

#### VARSITY

70. La Crosse.—1½ s.h.  
80. Baseball.—1½ s.h.

- |                            |                              |
|----------------------------|------------------------------|
| 34. Boxing.—1½ s.h.        | 82. Basketall.—1½ s.h.       |
| 37. Football.—1½ s.h.      | 84. Boxing.—1½ s.h.          |
| 38. Football.—1½ s.h.      | 87. Football.—1½ s.h.        |
| 41. Cross Country.—1½ s.h. | 88. Football.—1½ s.h.        |
| 42. Swimming.—1½ s.h.      | 90. Golf.—1½ s.h.            |
| 44. Tennis.—1½ s.h.        | 91. Cross Country.—1½ s.h.   |
| 46. Track.—1½ s.h.         | 92. Tennis.—1½ s.h.          |
| 48. Wrestling.—1½ s.h.     | 93. Soccer Football.—1½ s.h. |
| 50. La Crosse.—1½ s.h.     | 94. Swimming.—1½ s.h.        |
|                            | 96. Track.—1½ s.h.           |
|                            | 98. Wrestling.—1½ s.h.       |

## ELECTIVES IN PHYSICAL EDUCATION

Students in Group VI A may elect twelve semester-hours from the courses offered below. Three semester-hours may be elected from the courses listed under Special Methods in Physical Education and nine semester-hours may be elected from the courses listed under Theory and Practice in Physical Education.

These courses are arranged to meet the increasing demand for teachers who are qualified to coach and teach physical education. These courses should be selected with the advice of the Director of Undergraduate Studies in order to meet the needs of the individual.

## SPECIAL METHODS IN PHYSICAL EDUCATION

163. Athletic Coaching in Secondary Schools.—3 s.h.  
MR. COOMBS, MR. CHAMBERS

164. Athletic Coaching in Secondary Schools.—Prerequisites: courses 37 or 87 and 1-2 or 32 or 82 or their equivalent. 3 s.h.  
MR. WADE, MR. STANLEY, MR. CAMERON

## THEORY AND PRACTICE IN PHYSICAL EDUCATION

65. History and Principles of Physical Education.—3 s.h.  
MR. AYCOCK, MR. GERARD
172. Recreational Leadership.—3 s.h. MR. GERARD
173. Individual Gymnastics.—3 s.h. MR. AYCOCK
182. The Administration of Health and Physical Education in Secondary Schools.—3 s.h. MR. AYCOCK, MR. GERARD
187. School Programs of Physical Education.—3 s.h. MR. GERARD
190. Protective Practices in Physical Education.—3 s.h. MR. CHAMBERS

## WOMAN'S COLLEGE

MISS GROUT, CHAIRMAN;  
MRS. BOOKHOUT, MISS DOWLING, MISS LEWIS, AND MISS WYCHE

## ACTIVITIES OFFERED

*Fall term (October to December):* Hockey, soccer, swimming, diving, tennis, riding, light sports, volleyball, golf.

*Winter term (December to March):* Body mechanics, gymnastics, individual gymnastics, apparatus and stunts, clog and character dancing, folk dancing, social dancing, modern dance, swimming, life-saving, basketball, bowling.

*Spring term (March to June):* Tennis, swimming, diving, riding, baseball, track and field, archery, golf, badminton.

## ELECTIVES IN PHYSICAL EDUCATION

81. History and Principles of Physical Education.—Prerequisite: Educational Psychology. 3 s.h. MISS GROUT

102. The Teaching of Physical Education in Elementary Schools.—3 s.h. MISS GROUT

108. Recreational Leadership.—2 s.h. MISS DOWLING

181-182. Methods of Teaching Athletic Activities.—6 s.h. THE STAFF

185. The Teaching of Physical Education in Secondary Schools.—3 sh. MISS GROUT

## HYGIENE AND HEALTH EDUCATION

41. Hygiene.—3 s.h. MISS WYCHE

112. Personal and School Hygiene.—3 s.h. MISS GARDINER

132. School Health Problems.—3 s.h. ASSISTANT PROFESSOR AYCOCK

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN; ASSOCIATE PROFESSOR NELSON, DIRECTOR OF UNDERGRADUATE INSTRUCTION; DR. HAMILTON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BALDWIN, CARROLL, AND SYDNOR; ASSOCIATE PROFESSORS CLYDE AND LANNING; ASSISTANT PROFESSORS MANCHES-TER, QUINN, ROBERT, STILL, AND WOODY; DRs. MCCLOY, MABRY, PARKER, ROPP, AND WATSON; MR. MUNYAN; MISS CHAFFIN (PART-TIME)

1-2. Modern and Contemporaneous Europe.—6 s.h.

PROFESSOR CARROLL; ASSOCIATE PROFESSORS CLYDE AND NELSON;  
ASSISTANT PROFESSORS MANCHESTER AND QUINN; DRs.  
HAMILTON, PARKER, MCCLOY, AND ROPP; MISS CHAFFIN

51-52. Modern and Contemporaneous Europe.—6 s.h.

Courses 51 and 52 are each offered in both semesters.

PROFESSOR BALDWIN, DR. MABRY, AND MR. MUNYAN

61-62. Russia and the Near East From Peter the Great to Stalin.—Pre-requisite: course 1-2 or 51-52. 6 s.h. DR. ROPP

65-66. The Social and Cultural History of Western Europe in the Sev-  
enteenth and Eighteenth Centuries.—6 s.h. DR. MCCLOY

[Not offered in 1939-40]



91. Political and Social History of the United States to 1830.—3 s.h.  
ASSISTANT PROFESSORS ROBERT AND STILL; DR. MABRY
92. Political and Social History of the United States, 1830 to 1900.—3 s.h.  
ASSISTANT PROFESSORS ROBERT AND STILL; DR. MABRY
- 101-102. Early European Civilization.—6 s.h.  
ASSISTANT PROFESSOR QUINN
- 105-106. English Constitutional History.—6 s.h. DR. HAMILTON
- 107-108. Social and Cultural History of England.—6 s.h. MR. MUNYAN
- 109-110. Political and Cultural Foundations of Modern Europe, 1400-1648.—6 s.h.  
ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]
114. History of the United States since Reconstruction.—Prerequisites: courses 91 and 92. 3 s.h.  
ASSOCIATE PROFESSOR LANNING
- 119-120. Social and Cultural History of the United States.—Prerequisites: courses 91 and 92. 6 s.h.  
ASSISTANT PROFESSOR ROBERT
- 121-122. The Church in American History.—Prerequisites: courses 91 and 92. 6 s.h.  
PROFESSOR BALDWIN  
[Not offered in 1939-40]
- 123-124. English History.—6 s.h. PROFESSOR LAPRADE
125. The Ancient Regime, the French Revolution, and Napoleon.—3 s.h.  
[Not offered in 1939-40] PROFESSOR CARROLL
126. The Congress of Vienna and the Rise of the European Nations to 1870.—3 s.h.  
PROFESSOR CARROLL  
[Not offered in 1939-40]
127. History of Latin America.—3 s.h. ASSOCIATE PROFESSOR LANNING
130. European Expansion Overseas.—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER
- Ancient History.—Greek 131—Latin 131-132.
135. Main Currents in European History, 1815-1914.—3 s.h.  
PROFESSOR CARROLL
136. Europe since 1914, including the Rise of the Totalitarian States, Russia, Italy, and Germany.—3 s.h.  
PROFESSOR CARROLL
- 141-142. The Far East.—6 s.h. ASSOCIATE PROFESSOR CLYDE
- 153-154. The History of the South from Colonial Times through the Period of Reconstruction.—6 s.h.  
PROFESSOR SYDNOR
- FOR SENIORS AND GRADUATES
- 209-210. American Constitutional History.—Prerequisites: courses 91 and 92. 6 s.h.  
ASSISTANT PROFESSOR STILL  
[Not offered in 1939-40]
211. The Teaching of History and the Social Studies (Education 225).—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER
- 215-216. History of the United States' Foreign Policy.—Prerequisites: courses 91 and 92. 6 s.h.  
ASSOCIATE PROFESSOR CLYDE

- 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL  
[Not offered in 1939-40]
- 219-220. The History of the European Proletariat.—6 s.h. PROFESSOR CARROLL
- 223-224. Medieval Institutions and Culture.—6 s.h. ASSISTANT PROFESSOR QUINN
- 221-222. The Age of the Renaissance.—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]
- 225-226. The Age of the Reformation.—6 s.h. ASSOCIATE PROFESSOR NELSON  
[Not offered in 1939-40]
231. The Hispanic Colonies of the New World.—3 s.h. ASSOCIATE PROFESSOR LANNING  
[Not offered in 1939-40]
232. Hispanic Republics of the New World.—3 s.h. ASSOCIATE PROFESSOR LANNING  
[Not offered in 1939-40]
233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h. ASSOCIATE PROFESSOR LANNING
234. Political and Social Problems in the Hispanic American Republics.—3 s.h. ASSOCIATE PROFESSOR LANNING
241. History of Modern Japan.—3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]
242. History of Modern China.—3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]
- 263-264. American Colonial History and the Revolution, 1606-1783.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR WOODY
- 265-266. The Westward Movement in the United States.—Prerequisites: courses 91 and 92. 6 s.h. ASSISTANT PROFESSOR STILL

#### DEPARTMENTAL MAJOR

*Prerequisites:* The Introductory Course in History (1-2 or 51-52).

*Major Requirements:* Students in the General Group desiring to take a major in history are required to elect twenty-four semester-hours in the Department, including six semester-hours in the Senior year from courses in the 200 group. Students desiring to take the more advanced courses in American history should elect courses 91 and 92 in the Sophomore or Junior year.

#### DEPARTMENTAL HONORS PROGRAM

Students may become candidates for Honors in history who have passed with a grade of "B" or better in their Freshman and Sophomore years courses 91 and 92 in addition to the introductory course in European history.

Candidates for Honors in history are required to take in the Junior year two courses in history offered in the 100 group and to make an average grade of "B" or better on this work. The remaining work in the Junior year will be chosen from related work and other electives with the consent of the Departmental Committee on Honors. In the Senior year, in addition to the equivalent of fifteen semester-hours of supervised reading in history, the candidate must elect with the approval of the Departmental Committee on Honors six semester-hours of work from the courses in history offered in the 200 group, on which he is required to make a grade of "B" or better and nine semester-hours of related or other elective work.

Of the supervised reading, which shall be done under the immediate supervision of members of the Departmental Committee on Honors, the equivalent of six semester-hours shall be devoted to the classical historians such as Herodotus, Thucydides, Tacitus, Livy, Bede, and better-known chroniclers, Machiavelli, Gibbon, Hume, Voltaire, Ranke, and others; the equivalent of nine semester-hours shall be devoted to selected fields in either American or European history as the student may elect and the Departmental Committee advise.

At the conclusion of the work the student shall be given an oral examination by a committee of three, consisting of the two members of the Departmental Committee on Honors in charge of his supervised reading and another member of the Department selected by the Departmental Committee.

### LATIN AND ROMAN STUDIES

PROFESSOR ROSBOROUGH, CHAIRMAN; PROFESSOR ROGERS; ASSISTANT PROFESSOR GATES; DR. ROSE

- |   |                                       |
|---|---------------------------------------|
| 1-2. Course for Beginners.—6 s.h.   | DR. ROSE                              |
| 3. Cicero's Orations.—Prerequisite: two entrance units of Latin. 3 s.h.   | ASSISTANT PROFESSOR GATES OR DR. ROSE |
| 4. Vergil's Aeneid.—Prerequisite: three entrance units and Latin 57 taken in the semester preceding admission to the course, unless Latin 3 was taken. 3 s.h. | ASSISTANT PROFESSOR GATES OR DR. ROSE |
| 65-66. Latin Prose Composition.—2 s.h.  | DR. ROSE                              |
| 41. Livy's History of Rome.—3 s.h.  | THE STAFF                             |
| 42. Horace.—The Odes and Epodes. 3 s.h.   | THE STAFF                             |
| 53. Sallust and Tacitus.—Prerequisite: Latin 41-42 or an equivalent. 3 s.h.   | DR. ROSE                              |
| 54. Catullus.—3 s.h.  | DR. ROSE                              |
| 57. Sight Reading in Classical Latin.—1 s.h.  | THE STAFF                             |
| 58. Sight Reading in Mediaeval Latin.—Prerequisite: at least one of the following courses: Latin 3, 4, 41, 42, and 57, or an equivalent. 1 s.h.               | PROFESSOR ROSBOROUGH                  |
| 59. Roman Law.<br>[Not offered in 1939-40]  |                                       |
| 101. Tacitus and Suetonius.<br>[Not offered in 1939-40]   |                                       |
| 102. Juvenal and Persius.<br>[Not offered in 1939-40]   |                                       |
| 103. The Roman Elegiac Poets.—3 s.h.  | PROFESSOR ROSBOROUGH                  |
| 104. Horace: Satires and Epistles.—3 s.h.   | PROFESSOR ROSBOROUGH                  |
| 105-106. Martial's Epigrams: Letters of the Younger Pliny.<br>[Not offered in 1939-40]  |                                       |
| 107. Livy: Ab Urbe Condita.—3 s.h.  | ASSISTANT PROFESSOR GATES             |
| 108. Cicero's Letters.—3 s.h.   | ASSISTANT PROFESSOR GATES             |
| 109. Materials and Methods.<br>[Not offered in 1939-40]   |                                       |

111-112. Roman Literature in English Translation.—6 s.h.

PROFESSOR ROSBOROUGH

113-114. Roman Civilization.

[Not offered in 1939-40]

115. The Architecture of Ancient Rome.—*See course 216.*

[Not offered in 1939-40]

131-132. History of Rome.—6 s.h.

PROFESSOR ROGERS

203-204. Roman Epic Poetry.—6 s.h.

ASSISTANT PROFESSOR GATES

205-206. Roman Drama.

[Not offered in 1939-40]

207-208. Roman Philosophy.—Cicero, Lucretius, Seneca.

[Probably not to be offered in 1939-40]

PROFESSOR ROSBOROUGH

211-212. Roman Oratory.—6 s.h.

PROFESSOR ROGERS

215. Roman Art and Archaeology.

[Not offered in 1939-40]

216. Topography and Monuments of Ancient Rome.—3 s.h.

PROFESSOR ROSBOROUGH

#### DEPARTMENTAL MAJOR

*Prerequisites:* Latin 41-42, 65-66, or acceptable equivalents.

*Major Requirements:* Latin 53-54, 101-102, six semester-hours in courses numbered from 103 to 108, and six semester-hours in courses numbered from 200 to 299 to be taken in the Senior year.

In addition, all majors are expected to pursue course 131-132, History of Rome.

#### LAW COURSES FOR ACADEMIC STUDENTS

PROFESSORS BOLICH, FULLER, LATTY, LOWNDES, MAGGS, POTEAT; ASSISTANT PROFESSOR SANDERS; MR. ROALFE

The first-year program of the Law School is as follows:

L.201. Introduction to Procedure.—2 s.h.

PROFESSOR POTEAT

L.203-204. Contracts.—6 s.h.

PROFESSOR FULLER

L.205-206. Criminal Law and Its Administration.—4 s.h.

ASSISTANT PROFESSOR SANDERS

L.207-208. Chattel Transactions.—4 s.h.

PROFESSOR LATTY

L.210. Possessory Estates.—2 s.h.

PROFESSOR BOLICH

L.211-212. Torts.—5 s.h.

PROFESSOR MAGGS

L.213. Legal Bibliography.—1 s.h.

MR. ROALFE

L.214. Agency.—2 s.h.

PROFESSOR LOWNDES

## MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN; PROFESSOR ELLIOTT, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR MILES, SUPERVISOR OF FRESH-MAN INSTRUCTION; PROFESSORS RANKIN AND THOMAS; ASSOCIATE PROFESSOR CARLITZ; ASSISTANT PROFESSORS ALDRIDGE, GREENWOOD, HICKSON, PATTERSON, AND ROBERTS; DRs. BOAS AND DRESSSEL; MR. MARTIN (PART-TIME); AND ASSISTANTS

1. Introduction to College Algebra.—3 s.h. STAFF
  2. Plane Trigonometry.—3 s.h. STAFF
  - 3-4. Mathematical Analysis for Students of Business.—6 s.h. STAFF
  7. Algebra and Trigonometry.—3 s.h. STAFF
  8. Introduction to Analytic Geometry and Differentiation.—3 s.h. STAFF
  - 9-10. First-Year Engineering Mathematics.—10 s.h. STAFF
  50. Analytic Geometry.—3 s.h. STAFF
  - 51-52. Differential and Integral Calculus.—Prerequisite: analytic geometry. 6 s.h. STAFF
  - 59-60. Second-Year Engineering Mathematics.—Prerequisite: analytic geometry. 8 s.h. STAFF
  71. Mathematics of Investment.—Prerequisite: 6 semester-hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON
  74. Statistics.—Prerequisite: 6 semester-hours of college mathematics. 3 s.h. ASSISTANT PROFESSOR HICKSON  
[Not offered in 1939-40]
  76. Mathematical Theory of Economics.—Prerequisite: Mathematics 4 or Mathematics 8 or the equivalent. 3 s.h. ASSISTANT PROFESSOR HICKSON
  131. Elementary Differential Equations.—Prerequisite: integral calculus. 3 s.h. ASSISTANT PROFESSOR MILES
  - 139-140. Second Course in Calculus.—Prerequisite: integral calculus. 6 s.h. PROFESSOR ELLIOTT
  160. Elementary Solid Analytic Geometry.—Prerequisite: differential calculus. 3 s.h. ASSISTANT PROFESSOR MILES
  - 161-162. Reading Course for Juniors. STAFF
  - 163-164. Reading Course for Seniors. STAFF
- FOR SENIORS AND GRADUATES
201. History of Mathematics.—*Offered in alternate years.* 3 s.h. PROFESSOR RANKIN
  204. Teaching of Mathematics.—*Offered in alternate years.* 3 s.h. PROFESSOR RANKIN
  207. Fundamental Concepts of Algebra and Geometry.—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40]

225. **Theory of Equations.**—Prerequisite: differential calculus. 3 s.h.  
PROFESSOR THOMAS
- 227-228. **Theory of Numbers.**—Prerequisite: integral calculus. 6 s.h.  
ASSOCIATE PROFESSOR CARLITZ
- 229-230. **Algebraic Numbers.**—Prerequisite: Mathematics 225. 6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ
- 235-236. **Modern Algebra.**—Prerequisite: differential calculus. 6 s.h.  
[Not offered in 1939-40]
250. **Modern Geometry.**—Prerequisite: differential calculus. 3 s.h.  
[Not offered in 1939-40]
252. **Non-Euclidean Geometry.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR ROBERTS
- 255-256. **Projective Geometry.**—Prerequisites: differential calculus. 6 s.h.  
ASSISTANT PROFESSOR ROBERTS
275. **Probability.**—Prerequisite: integral calculus. 3 s.h. DR. BOAS
281. **Elementary Potential Theory.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR MILES
282. **Differential Equations of Mathematical Physics.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40] DR. DRESSEL
283. **Fourier Series and Spherical Harmonics.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40]
284. **Vector Analysis.**—Prerequisite: integral calculus. 3 s.h.  
PROFESSOR THOMAS
287. **Mathematical Logic.**—3 s.h.  
[Not offered in 1939-40]
288. **Foundations of Mathematics.**—3 s.h.  
[Not offered in 1939-40]
- 291-292. **Theory of Functions.**—Prerequisite: Mathematics 140. 6 s.h.  
ASSOCIATE PROFESSOR GERGEN

#### DEPARTMENTAL MAJOR

*Prerequisites:* Six semester-hours of Freshman mathematics.

*Major Requirements:* Mathematics 50, 51-52 or 59-60, and twelve semester-hours in courses numbered above 100. These twelve hours must be approved by the Department through the Director of Undergraduate Studies.

#### DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* A student who meets the general requirement as to candidacy of the Honors Group, who has completed Mathematics 99 and who has earned an average grade of "B" or better in his courses in mathematics, may become a candidate for Honors.

##### *Honors Work:*

(a) **Work in Mathematical Courses:** To graduate with Honors a candidate must complete, during his Honors program, a minimum of eighteen semester-hours of course work in courses numbered above 100. These courses must be completed with an average grade of "B" or better.



(b) **Tutorial Work:** During the Honors program a candidate reads on special topics in mathematics under the personal supervision of a tutor. A candidate must earn a minimum of six semester-hours of credit in this tutorial work. He cannot earn more than nine semester-hours on this tutorial work, nor more than thirty-six semester-hours for his course work in mathematics and his tutorial work combined.

(c) **Work in Courses in Related Fields:** A candidate must earn a sufficient number of semester-hours of credit in courses in related fields to complete with the credit obtained in (a) and (b) the sixty semester-hours required in the Honors Group.

A candidate's program must be approved by the Departmental Honors Adviser.

*General Honors Examination:* At the end of the Senior year each candidate reading for Honors in mathematics must pass a comprehensive examination on his Honors program. This examination may be written, oral, or both. Faculty members from other departments and other institutions may be invited to participate in this examination.

## MUSIC

PROFESSOR BALDWIN, ACTING CHAIRMAN; MR. BRUINSMA, DIRECTOR OF UNDERGRADUATE STUDIES; MR. BROADHEAD

### THEORY

- 11-12. **Fundamentals of Music.**—6 s.h. Mr. BRUINSMA
- 61-62. **Counterpoint, Canon and Fugue.**—Prerequisite: Music 11-12. 6 s.h.  
Mr. BRUINSMA
- 71-72. **Analysis of Form.**—Prerequisite: Music 11-12. 6 s.h.  
Mr. BRUINSMA
- 111-112. **Harmony.**—Prerequisite: Music 11-12. 6 s.h.
- 121-122. **Orchestration and Conducting.**—Prerequisite: Music 11-12. 6 s.h.

### HISTORY AND CRITICISM

- 81-82. **Introduction to Musical Literature.**—6 s.h. Mr. BROADHEAD
131. **Symphonic Literature.**—Prerequisite: Music 81-82. 3 s.h.  
Mr. BRUINSMA
132. **Symphonic Literature.**—Prerequisite: Music 131. 3 s.h.  
Mr. BRUINSMA
142. **Organ Literature.**—Prerequisite: Music 81-82. 3 s.h.  
[Not offered in 1939-40] Mr. BROADHEAD
197. **Bach.**—Prerequisite: Music 81-82. 3 s.h. Mr. BROADHEAD
198. **Beethoven.**—Prerequisite: Music 81-82. 3 s.h. Mr. BROADHEAD

### MUSIC EDUCATION

101. **Vocal Methods.**—Prerequisite: Music 11-12. 3 s.h.
102. **Instrumental Methods.**—Prerequisite: Music 11-12. 3 s.h.

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN; ASSOCIATE PROFESSOR MORGAN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. McLARTY, SUPERVISOR OF FRESHMAN INSTRUCTION; ACTING PROFESSOR DUBS; PROFESSORS GILBERT AND SMITH; AND ASSISTANT PROFESSOR LEONARD

*For courses marked \* there is a prerequisite of three hours, and those marked † six hours of philosophy: admission otherwise by permission of the instructor. Sophomores may in general take courses prescribed for Juniors by permission of the instructor.*

48. Introduction to Logic and Scientific Method.—3 s.h.

ASSISTANT PROFESSOR LEONARD

98. Introduction to Ethics.—3 s.h.

PROFESSOR GILBERT AND ASSOCIATE PROFESSOR MORGAN

101. Introduction to Philosophy.—3 s.h.

PROFESSOR WIDGERY (*first semester*)

DR. McLARTY (*second semester*)

PROFESSOR GILBERT

105. Introduction to the History of Philosophy: Ancient and Medieval.—3 s.h.

DR. McLARTY

106. Introduction to the History of Philosophy: Modern.—3 s.h.

PROFESSOR WIDGERY AND DR. McLARTY

108. Philosophical Ideas in Ancient Greek and Roman Culture.

DR. McLARTY

- 109-110. Plato.—Euripides.—6 s.h.

ASSISTANT PROFESSOR WAY

112. The Development of American Philosophy.—3 s.h.

ASSOCIATE PROFESSOR MORGAN

114. Seventeenth-Century Philosophy, with Special Reference to Spinoza.\*—3 s.h.

PROFESSOR GILBERT

119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h.

DR. McLARTY

121. The Philosophy of Plato.—3 s.h.

DR. McLARTY

## FOR SENIORS AND GRADUATES

- 201-202. The Philosophy of Art.—6 s.h.

PROFESSOR GILBERT

[Not offered in 1939-40]

203. The Philosophy of Conduct.†—3 s.h.

ASSOCIATE PROFESSOR MORGAN

204. Christian Ethics.—3 s.h.

PROFESSOR SMITH

205. The Philosophy of History.—3 s.h.

PROFESSOR WIDGERY

[Not offered in 1939-40]

206. Modern Political Theory.—3 s.h.

PROFESSOR WILSON

207. Political Thought to the Seventeenth Century.—3 s.h.

PROFESSOR WILSON

208. Political Philosophy.—3 s.h.

ASSOCIATE PROFESSOR MORGAN

[Not offered in 1939-40]

- 209-210. The Philosophy of Religion.—6 s.h. PROFESSOR WIDGERY
212. Psychology of Belief.—2 s.h. ASSOCIATE PROFESSOR LUNDHOLM
- 213-214. History of Aesthetics.—6 s.h. PROFESSOR GILBERT
- 215-216. Plato.—6 s.h. ASSISTANT PROFESSOR WAY
217. The Philosophy of Aristotle.\*—Prerequisite: course 105.  
DR. McLARTY
- 219-220. The Age of the Renaissance.—6 s.h.  
ASSISTANT PROFESSOR NELSON
224. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY
226. The History of Ethics.\*—3 s.h. ASSOCIATE PROFESSOR MORGAN
227. Mathematical Logic.—3 s.h.  
[Not offered in 1939-40]
228. Fundamental Concepts of Mathematics.—3 s.h.  
[Not offered in 1939-40]
- 229-230. Contemporary Physics.—6 s.h.  
ASSISTANT PROFESSORS NIELSEN AND CONSTANT AND DR. MOUZON
- 231-232. Philosophy of Science.—6 s.h. ASSISTANT PROFESSOR LEONARD
234. Introduction to the Philosophy of Education.—3 s.h.  
[Not offered in 1939-40] PROFESSOR HOLTON
236. Oriental Philosophy.—3 s.h. ACTING PROFESSOR DUBS
238. Oriental Philosophy.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
241. Logic.—3 s.h. ASSISTANT PROFESSOR LEONARD
242. Scientific Methodology.—3 s.h. ASSISTANT PROFESSOR LEONARD
244. European Thought in the Latter Half of the Nineteenth Century,  
with Special Reference to Nietzsche.—Prerequisite: 6 hours; admission  
otherwise by permission of the instructor. 3 s.h.  
ASSOCIATE PROFESSOR MORGAN
- 245-246. Philosophical Foundations of Religious Belief.—6 s.h.  
[Not offered in 1939-40] ACTING PROFESSOR DUBS
248. Philosophy of Values.—3 s.h. ACTING PROFESSOR DUBS

## DEPARTMENTAL MAJOR

The student is required to take courses amounting to at least eighteen credit hours in the Department. Of these six must be Philosophy 105-106, Introduction to the History of Philosophy; and six must be from courses in the 200 series. The student is advised to consult with an instructor in the Department as to the courses most suitable to fit in his general plan of study.

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN; PROFESSOR HATLEY, DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CARPENTER, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS EDWARDS, NORDHEIM, SPONER; ASSISTANT PROFESSORS CONSTANT AND MOUZON; DRs. BONNER AND HEBB; AND ASSISTANTS

- 1-2. Introductory Physics.—8 s.h.  
ASSISTANT PROFESSOR CARPENTER; PROFESSORS EDWARDS AND HATLEY; DR. HEBB; AND ASSISTANTS
- 17-18. Engineering Physics.—6 s.h.  
ASSISTANT PROFESSOR MOUZON; DRs. BONNER AND HEBB
- 51-52. General Physics.—Prerequisite: Mathematics 7-8 or equivalent.  
10 s.h. PROFESSOR HATLEY; ASSISTANT PROFESSOR CARPENTER; AND DR. BONNER
- 57-58. Engineering Physics.—6 s.h.  
ASSISTANT PROFESSOR MOUZON; DRs. BONNER AND HEBB
- 59-60. Elementary Atomic Physics.—6 s.h. PROFESSOR NIELSEN
61. Mechanics.—Prerequisite: a year course in general college physics.  
3 s.h. ASSISTANT PROFESSOR CARPENTER
62. Heat.—Prerequisite: a year course in general college physics. 3 s.h.  
ASSISTANT PROFESSOR CARPENTER
- 65-66. Intermediate Physics.—Prerequisite: Physics 1-2 or its equivalent.  
6 s.h. PROFESSOR EDWARDS
103. Electricity and Magnetism.—Prerequisite: a year course in general college physics. 3 s.h. ASSISTANT PROFESSOR CONSTANT
104. Electrical Measurements.—A fundamental course in electrical engineering or course 103 is a prerequisite. 3 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT
106. Photography.—Prerequisite: a year course in general physics and the consent of the instructor. 3 s.h. DR. BONNER
- 203-204. Analytical Mechanics.—6 s.h. DR. HEBB
- 205-206. Physical Optics.—6 s.h. PROFESSOR HATLEY
211. History of Physics.—2 s.h. PROFESSOR EDWARDS
- 213-214. Contemporary Physics.—6 s.h. ASSISTANT PROFESSOR CONSTANT
- 215-216. Atomic Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON
- 217-218. Advanced General Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON
219. Vacuum Tubes and Their Application.—Prerequisites: 8 s.h. of physics, differential and integral calculus. 3 s.h.  
ASSISTANT PROFESSOR MOUZON
- 221-222. Introduction to Theoretical Physics.—6 s.h.  
ASSISTANT PROFESSOR CONSTANT

## DEPARTMENTAL MAJORS

A. For the degree of A.B.:

*Prerequisites:* Physics 1-2 or equivalent and Mathematics 1-2 or 7-8 or equivalent.

*Major Requirements:* 18 to 24 hours of which six to twelve hours are in courses approved by the department below the 200 level and six to twelve hours in approved Senior graduate courses.

B. For the degree of B.S.:

*Prerequisites:* Physics 1-2 or 51-52 or 57-58 or equivalent, Chemistry 1-2 and Mathematics 1-2 or 7-8 or equivalent. Students who have a considerable number of hours in a closely allied field may with the approval of the department count 51-52 or 57-58 as a major requirement.

*Major Requirements:* Twenty-four hours of which six to twelve hours are in courses approved by the department below the 200 level and twelve to eighteen-hours in approved Senior graduate courses.

## DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Physics 1-2, 51-52, or 57-58 and 6 s.h. additional work in Physics above the Freshman level; Mathematics 6 s.h. and Chemistry 1-2.

*Honors Program:* Physics 103-104, 215-216 and 221-222; Mathematics 99-100 and 131; electives subject to the approval of the Departmental Honors Committee, 25 s.h., or enough to satisfy the requirements for graduation, of which at least 6 s.h. must be either a course in Geology or an advanced course in Chemistry, Botany, Zoology or Mathematics.

In addition, the student will arrange with his adviser for the performance of a limited number of elementary physical investigations. This will consist of both readings and experimental work which in general will constitute a survey of the classical and modern aspects of physics for which 10 s.h. credit will be allowed.

At the end of both the Junior and Senior years, the student will be given both an oral and a written examination in the field of physics.

## POLITICAL SCIENCE

PROFESSOR WILSON, CHAIRMAN; PROFESSOR RANKIN, DIRECTOR OF UNDERGRADUATE STUDIES; DR. GIBSON, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSOR VON BECKERATH; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSOR LINEBARGER; DR. SIMPSON

21. Principles of Government.—3 s.h. DR. GIBSON

22. Governmental Problems in International Relations.—3 s.h.  
ASSISTANT PROFESSOR LINEBARGER AND DR. GIBSON

61-62. American Government and Politics.—6 s.h.  
PROFESSORS RANKIN AND WILSON; ASSOCIATE PROFESSORS COLE AND SHIPMAN; ASSISTANT PROFESSOR LINEBARGER;  
DRS. GIBSON AND SIMPSON

Course 61-62 is ordinarily taken before any advanced course in political science. Students who have not had course 61-62 or its equivalent may be admitted to advanced courses in the Department with the approval of the instructors concerned.

111. Contemporary Problems in Far Eastern Politics.—3 s.h.  
ASSISTANT PROFESSOR LINEBARGER

113. Colonialism and Nationalism in Northern and Southeastern Asia.—  
3 s.h. ASSISTANT PROFESSOR LINEBARGER  
[Not offered in 1939-40]
125. American Political Parties and Practical Politics.—3 s.h.  
ASSOCIATE PROFESSOR COLE
136. Major European Governments.—3 s.h. ASSOCIATE PROFESSOR COLE  
[Not offered in 1939-40]
141. Public Regulation.—3 s.h. ASSOCIATE PROFESSOR SHIPMAN
164. Government Control of Railroads.—3 s.h.  
ASSOCIATE PROFESSOR SHIPMAN
172. Government and Agriculture.—3 s.h. PROFESSOR VON BECKERATH  
[Not offered in 1939-40]
174. Politics and Economics.—3 s.h. PROFESSOR VON BECKERATH
207. American Constitutional Law and Theory.—3 s.h.  
PROFESSOR WILSON
209. State and Local Government in the United States.—3 s.h.  
PROFESSOR RANKIN
211. Political Institutions of the Far East.—3 s.h.  
ASSISTANT PROFESSOR LINEBARGER
212. International Politics of the Far East.—3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR LINEBARGER
214. The Minor States of the Far East.—3 s.h.  
ASSISTANT PROFESSOR LINEBARGER
223. Political Thought to the Seventeenth Century.—3 s.h.  
PROFESSOR WILSON
224. Modern Political Theory.—3 s.h. PROFESSOR WILSON
- 225-226. Comparative Government.—6 s.h. ASSOCIATE PROFESSOR COLE
- 227-228. International Law and International Organization.—6 s.h.  
PROFESSOR WILSON
229. Recent and Contemporary Political Theory.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR COLE
230. American Political Institutions.—3 s.h. PROFESSOR RANKIN
- 241-242. The Administrative Process.—6 s.h.  
ASSOCIATE PROFESSOR SHIPMAN
244. Administrative Law.—3 s.h. ASSOCIATE PROFESSOR SHIPMAN  
[Not offered in 1939-40]
246. Legislation.—3 s.h. ASSOCIATE PROFESSOR SHIPMAN  
[Not offered in 1939-40]
271. Socio-Politics and Capitalism.—3 s.h. PROFESSOR VON BECKERATH
291. Municipal Government.—3 s.h. PROFESSOR RANKIN
292. Municipal Administration.—3 s.h. PROFESSOR RANKIN



**WORKING COLLECTION OF GOVERNMENT MATERIALS**

It is a policy of the department to gather and classify published and other materials of significance as illustrating actual processes of government. As a step toward the development of a laboratory of government, there has been made available in the general library a working collection of government materials for student use both for general reference and in the handling of assigned individual projects.

**DEPARTMENTAL MAJOR**

*Prerequisite:* Political Science 61-62.

*Major Requirements:* Eighteen semester-hours of work in the Department above Course 61-62, including at least nine semester-hours in Senior-Graduate courses. Courses 21 and 22 may not be counted toward a major.

**DEPARTMENTAL HONORS PROGRAM**

Students who plan to take Honors in Political Science must have Junior standing and must have completed Political Science 61-62 and Economics 51-52 with satisfactory grades. Exceptions may be made in the case of students who are taking Economics 51-52 in their Junior year.

The Honors work will consist of two readings in Political Science and one in Economics. In addition, a thesis will be required. The readings in Political Science will be given during the second semester of the Junior year and the first semester of the Senior year. The reading in Economics may be selected from the offerings in that Department. The thesis will be due on May 15th of the Senior year.

A weight of 15 hours will be given the readings and thesis (6-6-3) in Political Science. The reading in Economics will increase the credit total to 21 semester-hours. The normal course load will be three courses each semester after the first semester of the Junior year, when four courses will be required. With the approval of the Departmental Honors Committee, an additional honors reading may be taken in a related department, with a corresponding reduction in the course requirements.

Oral or written examinations at the end of each reading and a general oral and written examination at the end of the Senior year will be required.

Honors reading in Political Science are as follows:

**Comparative Government.**

ASSOCIATE PROFESSOR COLE

**Political Theory.**

ASSISTANT PROFESSOR LINEBARGER

**PSYCHOLOGY**

PROFESSOR MCDUGALL, CHAIRMAN;\* ASSOCIATE PROFESSOR ZENER, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS LUNDHOLM, MUENZINGER, AND RHINE; ASSOCIATE PROFESSOR ADAMS; DRs. MACCOLL (PART-TIME) AND PRATT

**\*\*101. Introduction to Psychology: General Principles of Mental Activity.—3 s.h.**

PROFESSOR LUNDHOLM; ASSOCIATE PROFESSOR ZENER; DRs. MACCOLL AND PRATT

**104. Comparative Psychology.—3 s.h.**

ASSOCIATE PROFESSOR ADAMS

**107-108. Psychological Analysis of Prominent Characters in Literature.—Selected Seniors and Juniors only. 2 s.h.**  
[Not offered in 1939-40]

PROFESSOR LUNDHOLM

\* Deceased, November 28, 1938.

\*\* This course is a prerequisite for all other courses in psychology. It is not open to students of lower standing than Juniors, except Sophomores who have made an average grade of "B" or better.

114. Psychology of Personality.—3 s.h. PROFESSOR RHINE
115. Introduction to Child Psychology.—3 s.h.  
ASSOCIATE PROFESSOR ADAMS AND DR. MACCOLL
201. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
202. Psychology of Esthetics.—3 s.h. PROFESSOR LUNDHOLM
204. Psychology of Motivation.—3 s.h. ASSOCIATE PROFESSOR ZENER
207. Psychology of Memory, Perceiving, Thinking.—3 s.h.  
ASSOCIATE PROFESSOR ZENER  
*In 1939-40 this course will be offered in the spring semester only.*
209. Experimental Methods in Human Psychology.—4 s.h.  
ASSOCIATE PROFESSOR ZENER
211. Physiological Psychology.—3 s.h. ASSOCIATE PROFESSOR ZENER  
[Not offered in 1939-40]
212. Developmental Psychology.—3 s.h. PROFESSOR —————
216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSOCIATE PROFESSOR ADAMS
217. Gestalt Theory.—3 s.h. ASSOCIATE PROFESSOR ADAMS  
[Not offered in 1939-40]
219. History of Psychology.—2 s.h. PROFESSOR McDougall\*
223. Abnormal Psychology.—3 s.h. PROFESSOR LUNDHOLM
226. Contemporary Schools of Psychology.—3 s.h.  
ASSOCIATE PROFESSOR ZENER  
[Not offered in 1939-40]
228. Psychology of Belief.—2 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1939-40]
229. Seminar in Child Psychology.—2 or 3 s.h. PROFESSOR —————
- 231-232. Introduction to Research.—2 or 3 s.h.  
PROFESSORS McDougall,\* LUNDHOLM AND RHINE;  
ASSOCIATE PROFESSORS ADAMS AND ZENER
233. Social Psychology of Value and Valuation.—2 s.h.  
PROFESSOR McDougall\*

#### DEPARTMENTAL MAJOR

*Prerequisites:* Zoology 1 and 2 or equivalent courses in biology.

*Major Requirements:* Eighteen semester-hours in Psychology including Psychology 101 and at least six hours in Senior-Graduate courses. The student is advised to consult with some member of the Department in planning his course.

#### DEPARTMENTAL HONORS PROGRAM

Departmental Honors in Psychology are governed by the General Rules covering all Honors programs.

*Prerequisite:* The minimum requirement for admission to Honors in Psychology is the completion of Psychology 101 with a grade of "B" or higher. Completion of Zoology 1-2 is strongly recommended.

\* Deceased, November 28, 1938.

*Departmental Honors Program:*

(a) Honors Readings.—Tutorial work with a member of the department designated by the Honors committee. This work shall be counted as the equivalent of six semester-hours in the Junior and nine semester-hours in the Senior year.

(b) Courses in Psychology.—At least five courses in the department in addition to the prerequisite (of which at least three must be of Senior-graduate level).

(c) Courses in Related Fields.—To complete the total of sixty semester-hours. All courses are to be chosen by consultation with the departmental Honors adviser.

(d) At the end of the Senior year.—A final written and oral examination on the fields of psychology chosen, and an experimental or critical paper on a selected problem.

**RELIGION**

PROFESSOR MYERS, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR CRUM, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS BRANSCOMB, CANNON, GARBER, HICKMAN, ORMOND, ROWE, RUSSELL, SMITH, AND SPENCE; ASSISTANT PROFESSORS CLARK, OUTLER, PETRY, AND STINESPRING; MRS. SPENCE

**1. The English Bible.—3 s.h.**

PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSORS CRUM AND OUTLER; MRS. SPENCE

**2. The English Bible.—3 s.h.**

PROFESSORS MYERS AND ORMOND, ASSISTANT PROFESSORS CRUM AND OUTLER; MRS. SPENCE

**51. The History of the Hebrew People.—3 s.h.**

PROFESSOR SPENCE; ASSISTANT PROFESSORS OUTLER AND PETRY; MRS. SPENCE

**52. New Testament Life and Literature.—3 s.h.**

PROFESSOR SPENCE; ASSISTANT PROFESSORS OUTLER AND PETRY; MRS. SPENCE

**101. The Social Teachings of the Prophets and Jesus.—3 s.h.**

PROFESSOR ORMOND

**102. The Christian Church in the Social Order.—3 s.h.**

PROFESSOR ORMOND

**103. The Prophets of the Old Testament.—3 s.h.**

PROFESSOR MYERS

**104. The History and Religion of the Jews to the Roman Period.—3 s.h.**

[Not offered in 1939-40]

PROFESSOR MYERS

**105. Religion in the Old Testament.—3 s.h.**

PROFESSOR ROWE

**106. Religion in the New Testament.—3 s.h.**

PROFESSOR ROWE

**115. The Life of Jesus.—3 s.h. (Old number S215.)**

PROFESSOR MYERS

**116. The Teachings of Jesus.—3 s.h.**

[Not offered in 1939-40]

PROFESSOR MYERS

**163. Religious Education of Children.—3 s.h.**

MRS. SPENCE

**167. Contemporary Religious Problems.—3 s.h.**

PROFESSOR SPENCE

**169. Character Problems.—3 s.h.**

ASSISTANT PROFESSOR CRUM

170. Religion and the Modern Home.—3 s.h. ASSISTANT PROFESSOR CRUM
181. The Nature and Early Development of Religion.—3 s.h. PROFESSOR CANNON
182. Founders and Literatures of Great Religions.—3 s.h. PROFESSOR CANNON
- 203-204. Introduction to the Old Testament.—6 s.h. PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING
- 213-214. The Beginnings of Christianity.—6 s.h. PROFESSOR BRANSCOMB
- SR.270. Masterpieces of Great Religious Literature.—3 s.h. PROFESSOR SPENCE
275. Introduction to the Psychology of Religion.—3 s.h. [Not offered in 1939-40] PROFESSOR HICKMAN
276. Advanced Psychology of Religion.—Prerequisite: course 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]
284. Comparative Religion.—Prerequisite: 181, 285, or equivalent. (Old number 384.) 3 s.h. PROFESSOR CANNON
285. The Religions of the Far East.—3 s.h. ACTING PROFESSOR DUBS
- Philosophy 119. Fundamentals of Christian Morality: An Introduction to Christian Ethics.—3 s.h. DR. McLARTY
- Philosophy 203. The Philosophy of Conduct.—3 s.h. ASSOCIATE PROFESSOR MORGAN
- Philosophy 204. Christian Ethics.—3 s.h. PROFESSOR SMITH
- ELECTIVE COURSES
- 131-132. American Christianity.—Prerequisite: History 1-2 or its equivalent. 6 s.h. PROFESSOR GARBER  
[Not offered in 1939-40]
- 201-202. Introductory Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING
- SR.211-212. Hellenistic Greek.—6 s.h. ASSISTANT PROFESSOR CLARK
217. The New Testament in Greek.—Prerequisite: six semester-hours' study of the Greek language. 3 s.h. ASSISTANT PROFESSOR CLARK
218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK
219. Life of Paul.—3 s.h. PROFESSOR MYERS
220. I Peter and the Gospel of John.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1939-40]
233. Church History to the Reformation.—3 s.h. ASSISTANT PROFESSOR PETRY
234. History of the Evangelical Movement.—3 s.h. PROFESSOR GARBER
261. Foundations of Religious Education.—3 s.h. PROFESSOR SMITH

262. Organization of Religious Education.—3 s.h.	PROFESSOR SPENCE
263. Curriculum of Religious Education.—3 s.h.	PROFESSOR SPENCE
SR.265. Religious Drama.—3 s.h.	PROFESSOR SPENCE
266. Educational Aspects of Worship.—3 s.h. [Not offered in 1939-40]	PROFESSOR SMITH
267. Technic of Teaching Religion.—3 s.h. [Not offered in 1939-40]	PROFESSOR SPENCE
SR.268. Religious Drama Construction and Production.—3 s.h.	PROFESSOR SPENCE
281. Living Religions of the World.—3 s.h. (Old number 282.)	PROFESSOR CANNON
283. Expansion of Christianity.—3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
286. The Religions of India.—3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
288. Mohammedanism.—Prerequisite: 181-182. (Old number 384.) 3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
289. Buddhism.—Prerequisite: 181-182. (Old number 383.) 3 s.h.	PROFESSOR CANNON

#### DEPARTMENTAL MAJOR

*Prerequisite:* Religion 1-2.

*Major Requirements:* A major in the Department of Religion consists of twenty-four semester-hours of work, exclusive of courses primarily for Freshmen, eighteen semester-hours of which shall be selected with the approval of the instructor under whose supervision the student does his major work.

#### DEPARTMENTAL HONORS PROGRAM

##### *General Rules:*

I. The departmental Honors program constitutes the work of the Honors student during the Junior and Senior years. This program shall be the equivalent of sixty semester-hours of work.

II. The minimum amount of work that may be taken in the Department of Religion shall be the equivalent of twenty-four semester-hours, and the maximum shall be the equivalent of thirty-six semester-hours. Of this, the work done in the Honors tutorials shall count fifteen hours, six hours for the Junior year, six hours for the Senior year, and three hours for the comprehensive examination at the end of the Senior year.

III. The related work, which shall constitute at least two-fifths of the Honors program, that is, the equivalent of twenty-four semester-hours, must be distributed among not less than two departments, unless the departmental committee gives special permission for the student to take his related work in one department.

##### *Normal Program:*

The normal program for the Honors student in the Junior year shall consist of the Honors tutorial, two courses in the department of Religion, and two courses in related departments; in the Senior year the work shall consist of the Honors tutorial, one and one-half courses in Religion, and two in related departments.



*General Honors Examinations:*

Two comprehensive written examinations and a supplementary oral examination will be held at the end of the Senior year to test the student's knowledge of the special field in which he has done his Honors work.

*Prerequisite:*

The minimum requirement for admission to Honors in Religion is the completion of a course in Religion during the Sophomore year on which the student makes at least a grade of "B."

**ROMANCE LANGUAGES**

PROFESSOR WEBB, CHAIRMAN AND DIRECTOR OF UNDERGRADUATE STUDIES; ASSISTANT PROFESSOR DAVIS, SUPERVISOR OF FRESHMAN INSTRUCTION IN FRENCH; ASSISTANT PROFESSOR HASBROUCK, SUPERVISOR OF FRESHMAN INSTRUCTION IN SPANISH; PROFESSORS COWPER AND JORDAN; ASSOCIATE PROFESSORS LUNDEBERG AND WALTON; ASSISTANT PROFESSORS BRIDGERS, QUINN, REID, AND YOUNG; DR. AVILÉS\* AND DOW, MME. DOW, MISS RAYMOND, MR. SINGER (PART-TIME); AND ASSISTANTS

**FRENCH****1-2. Elementary French.—6 s.h.**

ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSOR BRIDGERS; DR. DOW

**3-4. French Prose.—Prerequisites: French 1 and 2, or two years of high-school French. 6 s.h.**

PROFESSORS COWPER, JORDAN, AND WEBB; ASSOCIATE PROFESSOR WALTON; ASSISTANT PROFESSORS BRIDGERS, DAVIS, AND QUINN; DR. DOW, MISS RAYMOND, AND MME. DOW

**51-52. Introduction to French Literature.—Prerequisites: French 3 and 4 or equivalent. 6 s.h.**

PROFESSORS COWPER AND JORDAN; ASSISTANT PROFESSORS BRIDGERS, DAVIS, QUINN, AND YOUNG; DR. DOW AND MISS RAYMOND

**57-58. Introduction to French Literature.—Prerequisites: French 3 and 4 or equivalent. 6 s.h.**

PROFESSOR WEBB AND ASSOCIATE PROFESSOR WALTON

**55. Exercises in Spoken French.—1 s.h.**

MME. LINIÈRE DOW

**56. Exercises in Spoken French.—1 s.h.**

MME. LINIÈRE DOW

**87-88. French Writers of the Romantic Movement.—6 s.h.**

ASSISTANT PROFESSOR DAVIS  
*May not be taken with or in addition to course 108.*

**107. French Composition.—3 s.h.**

PROFESSOR COWPER AND MISS RAYMOND

**108. The French Romantic Movement.—3 s.h.**

PROFESSOR COWPER AND MISS RAYMOND  
*May not be taken with or in addition to course 87-88.*

**109. Molière.—3 s.h.**

[Not offered in 1939-40]

PROFESSOR WEBB

\* Resigned, June 30, 1939.



110. Poems of Victor Hugo.—3 s.h. PROFESSOR WEBB  
[Not offered in 1939-40]
111. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG
112. French Drama since 1850.—3 s.h. ASSISTANT PROFESSOR YOUNG
- 115-116. Balzac and His Age.—6 s.h. ASSISTANT PROFESSOR BRIDGERS
127. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h. MME. LINIÈRE DOW
128. Advanced French Composition.—Prerequisite: French 107 or equivalent. 3 s.h. MME. LINIÈRE DOW
213. French Classicism.—3 s.h. ASSOCIATE PROFESSOR WALTON
214. French Classicism.—3 s.h. ASSOCIATE PROFESSOR WALTON
- 215-216. The Modern French Novel.—Prerequisite: 6 s.h. from courses 87-88, and 108 to 116, inclusive. 6 s.h. PROFESSOR JORDAN
217. French Phonetics.—Prerequisite: 3 s.h. from courses 107 or 127-128. 3 s.h. PROFESSOR WEBB
218. Materials and Methods.—Prerequisite: course 107 or equivalent. 3 s.h. PROFESSOR WEBB
219. Old French.—3 s.h. PROFESSOR COWPER  
[Not offered in 1939-40]
220. Old French.—3 s.h. PROFESSOR COWPER  
[Not offered in 1939-40]
227. French Poetry since Théophile Gautier.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON
232. Rousseau and the Beginnings of Romanticism.—3 s.h.  
[Not offered in 1939-40] PROFESSOR COWPER
233. Main Currents of Modern French Literature.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON

## ITALIAN

- 181-182. Italian.—6 s.h. PROFESSOR WEBB

## ROMANCE LITERATURE IN TRANSLATION

- 191-192. Masterpieces of Romance Literature in English Translation.—6 s.h. ASSISTANT PROFESSOR HASBROUCK

## SPANISH

- 1-2. Elementary Spanish.—6 s.h.  
ASSISTANT PROFESSORS DAVIS, HASBROUCK, QUINN,  
AND YOUNG; DRs. AVILÉS AND DOW
- 3-4. Intermediate Spanish.—6 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG; ASSISTANT PROFESSORS  
BRIDGERS, HASBROUCK, AND QUINN; DR. AVILÉS
65. Introduction to Modern Spanish Literature.—Prerequisites: Spanish 3-4 or equivalent or Spanish 101-102 with permission. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG; DR. AVILÉS

66. **Introduction to Spanish Literature of the Golden Age.**—Prerequisites: Spanish 65 or equivalent. 3 s.h.

ASSOCIATE PROFESSOR LUNDEBERG; DR. AVILÉS

101-102. **Elementary Spanish.**—6 s.h. ASSISTANT PROFESSOR HASBROUCK  
[Not offered in 1939-40]

155. **Literatura Hispanoamericana: La Pampa, Payadores y Gauchos en la Literatura Americana.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 3 s.h.

156. **La Tendencia Modernista en la Literatura Americana.**—Prerequisites: Spanish 155 or equivalent. 3 s.h.

157-158. **The Modern Spanish Theater.**—Prerequisites: Spanish 65-66 or 3-4 with permission. 6 s.h. ASSISTANT PROFESSOR HASBROUCK  
[Not offered in 1939-40]

253. **Spanish Phonetics.**—Prerequisite: Spanish 65-66. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG

254. **Materials and Methods.**—Prerequisites: Spanish 65-66. 3 s.h.

261-262. **The Modern Spanish Novel.**—Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR LUNDEBERG

265. **Golden Age Literature: Cervantes.**—Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG

266. **Golden Age Literature: The Don Juan Theme.**—Prerequisites: 6 s.h. from courses 155 to 158 inclusive, or 65-66 with permission. 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG

#### DEPARTMENTAL MAJORS

*Prerequisites:* French 1-2, 3-4, or equivalent, for French. Spanish 1-2, 3-4, or equivalent, for Spanish.

*Major requirements:* In French, twenty-four semester-hours of work must be completed in courses above the Freshman level, and must include: (a) six semester-hours from the group 107, 127-128, 217; (b) six semester-hours of literature in courses numbered 213 to 232. Students desiring the recommendation of the Department for the teaching of French will take in addition French 218.

In Spanish, twenty-four semester-hours must be completed as follows: eighteen semester-hours in the courses 65-66, 155-156, 157-158; six semester-hours from the group 253-254, 261-262, 265-266.

#### DEPARTMENTAL HONORS PROGRAM

*Prerequisites:* Completion of 51-52 or 57-58 by the end of Sophomore year in a manner satisfactory to the departmental committee.

Honors work in French includes:

(a) Training in the use of written and oral French; composition, resumé, and literary commentary in French. 3 s.h. each semester of Junior and Senior years, total 12 s.h.

(b) Readings in French literature

(1) Survey of chief authors. 3 s.h. each semester or 12 s.h.

- (2) Genre studies beginning with the modern novel. 3 s.h. each semester or 12 s.h.  
 (c) Comprehensive examination  
 (d) Related work: 24 s.h.

### SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN; PROFESSOR JENSEN, DIRECTOR OF UNDERGRADUATE STUDIES; PROFESSORS GROVES AND HART; ASSISTANT PROFESSOR THOMPSON

- 91-92. General Sociology.—6 s.h. PROFESSOR JENSEN  
 101. General Sociology.—5 s.h. PROFESSOR ELLWOOD  
 102. General Sociology.—5 s.h. PROFESSOR ELLWOOD  
 109. Sociology of the South.—Prerequisite: course 91-92 or 101. 3 s.h.  
 ASSISTANT PROFESSOR THOMPSON  
 111. Introduction to Child Welfare.—Prerequisite: course 91-92 or 101.  
 3 s.h. PROFESSOR JENSEN  
 114. Race Relations.—Prerequisite: course 91-92 or 101. 3 s.h.  
 ASSISTANT PROFESSOR THOMPSON  
 205. Social Pathology.—Prerequisite: course 91-92 or 101. 3 s.h.  
 PROFESSOR JENSEN  
 206. Criminology.—Prerequisite: course 91-92 or 101. 3 s.h.  
 PROFESSOR JENSEN  
 212. Child Welfare.—Prerequisite: course 91-92 or 101. 3 s.h.  
 [Not offered in 1939-40] PROFESSOR JENSEN  
 213. Constructive Social Policies.—Prerequisite: course 91-92 or 101. 2 s.h.  
 [Not offered in 1939-40] PROFESSOR JENSEN  
 219. Urban Sociology.—Prerequisite: course 91-92 or 101. 3 s.h.  
 ASSISTANT PROFESSOR THOMPSON  
 220. Rural Sociology.—Prerequisite: course 91-92 or 101. 3 s.h.  
 ASSISTANT PROFESSOR THOMPSON  
 227. Emigration and Immigration.—Prerequisite: course 91-92 or 101.  
 3 s.h. PROFESSOR JENSEN  
 [Not offered in 1939-40]  
 231. General Anthropology.—3 s.h. PROFESSOR HART  
 232. Cultural Anthropology.—3 s.h. PROFESSOR HART  
 233. The World Crisis in the Light of Social Anthropology.—3 s.h.  
 PROFESSOR HART  
 234. Social Ethics.—3 s.h. PROFESSOR HART  
 238. The American Indian.—3 s.h.  
 [Not offered in 1939-40]  
 242. Marriage and the Family.—Prerequisite for undergraduate credit:  
 Sociology 91-92 or 101. 2 s.h. PROFESSOR GROVES (U. N. C.)  
 251. Education and Social Control.—2 s.h. PROFESSOR ELLWOOD

## DEPARTMENTAL MAJOR

Students desiring to take a major in sociology are required to complete course 91-92 or 101 or 102 and twelve additional hours in the Department.

## ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; ASSOCIATE PROFESSOR GRAY, DIRECTOR OF UNDERGRADUATE STUDIES; DR. JEFFERS, ADVISER OF UNDERGRADUATE WOMEN; DR.

BOOKHOUT, SUPERVISOR OF FRESHMAN INSTRUCTION; PROFESSORS CUNNINGHAM, HALL, HARGITT; DRs. CULBRETH, JOHNSON, TUCKER, WHARTON; AND ASSISTANTS

## 1. General Zoology.—4 s.h.

DRs. BOOKHOUT AND JEFFERS; DRs. CULBRETH AND JOHNSON; AND ASSISTANTS

## 2. Animal Biology.—Prerequisite: Zoology 1. 4 s.h.

ASSOCIATE PROFESSOR GRAY AND DR. JEFFERS; DRs. BOOKHOUT, CULBRETH, AND JOHNSON; AND ASSISTANTS

## 53. Comparative Vertebrate Anatomy.—Prerequisites: Zoology 1 and 2. 4 s.h.

ASSOCIATE PROFESSOR GRAY AND DR. CULBRETH; DR. JOHNSON; AND ASSISTANTS

## 92. General Embryology.—Prerequisite: Zoology 53. 4 s.h.

PROFESSOR CUNNINGHAM AND DR. JEFFERS; DR. JOHNSON; AND ASSISTANTS

## 109. Evolution.—Prerequisite: two years of zoology. 2 s.h. DR. JOHNSON

110. Introduction to Genetics.—Prerequisite: one year of zoology. 2 s.h.  
DR. JOHNSON

## 151. Comparative Physiology.—Prerequisite: Zoology 53. 4 s.h.

PROFESSOR HALL AND DR. CULBRETH; AND ASSISTANTS

## 156. Vertebrate Histology.—Prerequisite: Zoology 53. 4 s.h.

PROFESSOR HARGITT

## 161. Animal Parasites.—Prerequisite: one year of zoology. 4 s.h.

PROFESSOR PEARSE

## 174. Invertebrate Zoology.—Prerequisites: Zoology 1 and 2. 4 s.h.

DR. BOOKHOUT

## 204. Advanced Parasitology.—Prerequisite: Zoology 161. 3 or 4 s.h.

[Not offered in 1939-40] PROFESSOR PEARSE

## 219-220. Special Problems.—Not more than 4 s.h.

STAFF

## 222. Entomology.—Prerequisite: one year of zoology. 4 s.h.

ASSOCIATE PROFESSOR GRAY

## 224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.

[Not offered in 1939-40] ASSOCIATE PROFESSOR GRAY

## 229. Endocrinology.—Prerequisites: Zoology 53 and 92. 3 or 4 s.h.

PROFESSOR CUNNINGHAM

## 256. Seminar: Current Developments in Physiological Zoology.—Prerequisite: Zoology 151. 2 s.h.

PROFESSOR HALL

## RELATED COURSES WHICH MAY BE COUNTED TOWARD A MAJOR IN ZOOLOGY

**Botany 101. Principles of Heredity.—3 or 4 s.h.****DR. PERRY****Botany 202. Genetics.—4 s.h.****DR. PERRY****DEPARTMENTAL MAJOR***Prerequisites:* Zoology 1 and 2.*Major Requirements:* Twenty-four semester-hours including courses 53, 92, and 151. The remaining twelve hours may be from any other courses for which the student is eligible.**DEPARTMENTAL HONORS PROGRAM**

For admission to candidacy for Honors in zoology a student is expected to have completed zoology courses 1, 2, 53, and 92 and not less than eight semester-hours of chemistry.

Honors work consists of regular courses and independent study; the program, however, will not be the same for all students. Zoology 151 is required of all zoology majors; the number and nature of other courses to be taken in zoology and in related subjects will depend upon the needs and interests of the student. The usual number of semester courses will be four to six in zoology and six in other subjects in the Natural Science group.

In addition to regular courses each student shall read in such fields as history of biology and zoological theories, or in special fields, and shall undertake a special research problem under the direction of some member of the staff whom the student may select. The student may be asked to prepare written reports on his readings and must present a written report on his research problem. Readings and problem count for nine to twelve semester-hours.

At the end of the Junior year an examination will be given to test the student's ability to correlate material and to determine his fitness to continue in the Honors group. At the end of the Senior year a general comprehensive examination covering the entire field of study must be passed.

## GENERAL REGULATIONS

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The academic year is divided into two semesters. The first semester of the academic year 1939-40 begins September 20; the second, February 1. Commencement is held on Monday after the first Sunday in June. Commencement Day, 1940, is June 3.

### MATRICULATION, REGISTRATION, AND ENROLLMENT

All students must appear before the Committee on Admission and obtain cards for admission. Cards of admission must be presented at the Treasurer's Office at the time of matriculation. All students, both old and new, are required to matriculate at the beginning of each semester and to obtain from the Treasurer a certificate of matriculation which serves also as an enrollment card.

### COURSE CARDS

Members of the Freshman, Sophomore, and Junior classes are required to submit to the Dean, not later than the date of spring registration, cards showing their selection of courses for the following year. These cards must be approved by the Dean. After being approved, the cards must be filed for permanent record in the Dean's Office.

### EXAMINATIONS

Mid-year and final examinations are held in all subjects in January and May, respectively. The examination record combined with the record made in class constitutes the student's final grade.

### REGULATIONS REGARDING GRADES

The following regulations have been adopted by the Faculty:

Grades shall be reported so as to indicate one of four things:

(1) *Passed.* A grade "A," "B," "C," or "D" shall indicate that a student has passed a course. The work of this group of students shall be graded according to the following system: "A": exceptional; "B": superior; "C": medium; "D": inferior.

(2) *Failed.* A grade of "F" shall indicate that the student has failed in the course and that in order to receive credit for the course he shall be obliged to take the work again in class.

(3) *Incomplete.* (a) A grade of "I" may be reported by the instructor if for any reason he is unable to report the final grade at the regular time. (b) All students with incomplete grades who have not satisfied the requirements of the departments concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "I" was incurred are regarded as hav-



ing failed on the course concerned and must repeat the work in class in order to receive credit.

(4) *Absent from Final Examination.* (a) The grade "X" shall indicate that the student was absent from the final examination. (b) A student absent from examination and marked "X," if his absence has been excused by the Dean of the College, may receive an examination on the payment of a fee of \$3.00 to the Treasurer of the University. The department concerned shall arrange for the examination in cases where absences are incurred and excused, and the grade reported in these cases shall be that earned by the student. (c) All students with "X" grades who have not satisfied the requirements of the department concerned and who have not obtained a passing grade before the close of the semester following the date of the regular examination in which the "X" was incurred, are regarded as having failed on the course concerned and must repeat the work in class in order to receive credit. (d) If a student's absence from an examination is not excused by the Dean of the College, his grade for the course concerned shall be recorded as "F."

#### EXPLANATION OF QUALITY-POINT SYSTEM

The requirements for the degree are reckoned not only in semester-hours but also in quality-points. Quality-points are the points earned by a student according to his grades, for each semester-hour of credit. The grade "A" gives three quality-points for each semester-hour of credit; the grade "B" two quality-points; the grade "C" one quality-point. The grade "D" carries no credit in quality-points. For the grade "F" one quality-point is deducted for each semester-hour of failure. Credit for 122 quality-points, exclusive of those earned in physical education, is required for the degree of Bachelor of Arts or Bachelor of Science in all groups.

#### NUMBER OF HOURS OF CLASS WORK

No undergraduate student is allowed to take less than fourteen hours of class work a week without special permission of the Dean.

No undergraduate student may take more than seventeen semester-hours of work in one semester, if he fails to make eighteen quality-points on the work of the preceding semester.

#### CLASS STANDING

For a student to rank as a Sophomore, he must have to his credit twenty-four semester-hours with an average grade of "C"; as a Junior, fifty-six semester-hours with an average grade of "C"; as a Senior, ninety semester-hours, with an average grade of "C."

#### SENIOR WORK

A student of the Senior Class, irrespective of his average grade in preceding years, must, in order to be eligible for graduation, complete his work of the Senior year with an average grade of "C" or better.

### EXCLUSION FOR FAILURE

A student of the Freshman Class entering college for the first time is not permitted to remain in the University in the second semester unless he passes as much as six semester-hours of the work of the first semester; any other student is not permitted to remain in the University in the second semester unless he passes as much as nine semester-hours of work in the first semester.

No student is permitted to re-enter in September, nor to enter the Summer School, if he did not pass at least eighteen semesters-hours of the work in the previous year; any other student is not permitted to re-enter in September, nor to enter the Summer School, if he did not pass at least nine semester-hours of work in the second semester of the previous year and a total of eighteen semester-hours of work for the entire year.

### STUDENTS TRANSFERRING FROM OTHER INSTITUTIONS

Students whose advanced credits from another institution are accepted by the University will be given an average grade of "C" on the semester-hours with which they are credited, provided their grades warrant it.

### DEFICIENCIES IN COMPOSITION

The following regulations have been adopted by the Faculty:

1. Any Freshman who is found by the English Department to be unable to handle satisfactorily the work of composition in English 1-2 is required to take special work until he is able to do satisfactorily the regular work of English 1-2.

2. No student who has failed in English 1-2 or 53 is permitted to become a special student without continuing his work in composition until he has made up his deficiency in this work.

3. Whenever the work of a student in any subject is satisfactory to an instructor except for gross errors in English, the instructor concerned may hand in a provisional grade only. This grade may not be recorded in the college files until the student shall have improved his work in composition to the satisfaction of the English Department. A list of such provisional grades, along with evidence of deficiencies, shall be furnished the English Department each term by the officers in charge of the grades, and a report shall be made by this department when the deficiencies shall have been removed.

4. All instructors are requested to advise their students each semester concerning these regulations.

### CANDIDATES FOR ACADEMIC DEGREES

1. A tentative list of all candidates for the Bachelor's degree shall be prepared under the supervision of the Dean of the College as early in the college year as possible, shall be read by him to the Faculty at its first regular meeting in October, shall be furnished in copy to each department of instruction for information and reference, and also shall be

posted in copy on the official bulletin board of the University for the information of the students concerned.

2. Copies of a second such tentative list likewise shall be prepared, read, and distributed by April 15.

3. A final list of all candidates for the degree shall be read by the Dean to the Faculty at its first regular meeting in May and shall be adopted by the Faculty as the final list. After the adoption of this list no name may be added to it.

4. Students who during Summer School complete the requirements for a degree shall be classified for graduation as of the year following the Summer School in which the work was completed, and their name shall so appear in the catalogue of the University and on the Commencement Program.

#### THE DEAN'S LIST

Students of the Junior and Senior classes who, at the mid-year or final examinations, have attained in Duke University an average of "B" in their courses of the half-year just closed and who have not received a grade of "F" in any course may be placed on the Dean's List for the succeeding half-year. The privilege of the Dean's List is also extended to eligible members of the Sophomore Class during their second semester.

The name of a student may be withdrawn from the List at any time by the Dean, if the student fails to maintain a satisfactory standard of scholarship and conduct.

Students whose names are on the Dean's List will not be subject to the general regulations of the University governing class attendance. This privilege, however, may not be exercised in courses primarily open to Freshmen. Furthermore, such students are required to be present at the meeting of classes immediately before and after any holiday, unless they are excused by the Dean of the College.

If for any reason a student is removed from the Dean's List during, or at the close of, the second semester of his Junior year, his name may not be reinstated on the List.

#### CLASS ATTENDANCE AND ABSENCES

Regular and punctual attendance in class work is required of all students not on the Dean's List.

#### ASSEMBLY AND CLASS MEETINGS

##### TRINITY COLLEGE

There shall be held on the first Thursday of each month of the college year in Page Auditorium, from 12:30 P.M. to 12:50 P.M., an assembly of all Seniors, Juniors, Sophomores and Advanced Freshmen of Trinity College, and at this period of the day separate meetings of these four groups on the second, third, and fourth Mondays, Tuesdays, or Thursdays of each month. There shall be a class meeting of the Freshman

Class on each Saturday of every month at the time named above. The Engineering assemblies are held on the first Tuesday of each month from 12:30 P.M. to 12:50 P.M.

Attendance upon all of these meetings is compulsory for all students involved. Any student incurring in a semester a total of more than four absences from them automatically excludes himself from college.

#### WOMAN'S COLLEGE

An assembly is held each Tuesday, Wednesday, and Thursday in the Woman's College Auditorium. The hour is 12:30 P.M. on Tuesday, 12:40 P.M. on Wednesday and Thursday. Freshmen and transfer Sophomores are required to attend each day, Sophomores on Wednesday and Thursday, and Juniors and Seniors on Thursday. A meeting of the Freshman Class is held each Monday at the assembly hour, and the other classes meet at appointed times.

Attendance upon all of these meetings is compulsory for all students involved.

#### SCHOLASTIC REGULATIONS FOR ATHLETIC AND OTHER ORGANIZATIONS

The following regulations have been adopted by the Faculty:

1. Any student who receives less than a passing grade on more than six hours of his required work of the preceding term shall be ineligible to represent the University in any athletic contest, concert, or other public event.

2. Members of athletic teams or other student groups engaging in public representation of the University are expected to be carrying satisfactorily their current work. A student may be barred from participation in such representation if, in the opinion of the Dean, he is not doing satisfactorily his current work.

Duke University is a member of the Southern (Athletic) Conference and observes the following scholastic requirement of that Conference:

"The scholastic requirement for eligibility to participate in varsity intercollegiate sports shall be for 1939-40 the passing by the applicant of a minimum of twenty-one semester-hours or thirty quarter-hours of the work of his immediately preceding year in college; thereafter the passing of twenty-four semester-hours or thirty-six quarter-hours of the said work; with the proviso that graduate students and students in schools of law and medicine become scholastically eligible on the certificate of the deans of their schools."

#### THE ATHLETIC COUNCIL

The Board of Trustees, at its regular annual meeting in June, 1907, created an Athletic Council to be composed of eleven members appointed annually: three from the Faculty, to be appointed by the President of the University; four from the alumni, elected by the Alumni Association;

and four from the undergraduates, one from each of the four classes, elected by the members of each class.

The three members of the Athletic Committee of the Faculty are the Faculty representatives in the Athletic Council. This committee alone has the responsibility of enforcing the scholastic and athletic requirements of the University for student participation in intercollegiate sports. The athletic eligibility rules are those of the Southern Conference; the scholarship requirements are printed elsewhere in this catalogue.

The Executive Committee of the Athletic Council is composed of the Chairman of the Faculty Committee on Athletics, and one other Faculty member and one alumni member of the Council. The Athletic Council on recommendations of its Executive Committee arranges athletic schedules, awards insignia of merit earned by members of athletic teams, and strives to promote among students of the University a proper and helpful athletic spirit; to encourage good fellowship in such sports both within the student body and toward student bodies of other educational institutions; through athletic sports to help cultivate a high sense of honor, earnest, unselfish effort, and manly conduct. The Executive Committee of the Council recommends to the President of the University persons to serve as Graduate Manager of Athletics and as coaches in the various sports. However, the election of such persons rests solely with the Trustees of the University or the Executive Committee of the University, on recommendation of the President of the University.

All funds arising from athletics are handled entirely by the Treasurer of the University. An audit of the receipts and disbursements of these funds is made annually by the official auditors of the University.

#### REGULATIONS REGARDING PUBLIC LECTURES AND OTHER PUBLIC OCCASIONS

All public lectures or addresses and other public events that are given under the auspices of the University or of any organization in any way connected with the University are under the supervision of the Faculty Council on Public Lectures. All dates and programs must be approved by this council except in instances where such occasions have been placed under the supervision of the Director of Public Relations.

#### HEALTH AND PHYSICAL EDUCATION

The program of Health and Physical Education in Duke University has four distinct phases, as follows:

1. Student Health.
2. Physical Instruction.
3. Intramural Sports.
4. Intercollegiate Athletics.

#### MEDICAL CARE

With the exceptions noted below, full medical and surgical care is furnished to all regularly matriculated students of the University, during



both the college year and the summer quarter, at no additional cost to them beyond the medical fee of \$5.00 payable each semester or the medical fee charged each student of the summer quarter. This service is under the direction of the University Physician with the co-operation of the Staffs of the Infirmaries (one on each campus) and the University Hospital. It includes hospitalization, (limited to thirty days), medical and surgical care, drugs, dressings, X-ray work, and ward, but not special, nursing. A charge for board is made at the same rate as in the University dining-halls, and student meal tickets for these halls are accepted in payment of this board. Refraction of eyes, treatment of teeth and of all chronic and pre-existing conditions, such as diseased tonsils, hernias, elective surgery, chronic skin conditions, endocrine disturbances, etc., or accidents or illnesses occurring during vacations or while off the campus, are not included in this service. The cost of any necessary braces and orthopaedic appliances, as well as of special nursing, must be borne by the student.

No illness is treated in dormitory or other rooms occupied by students. Students needing treatment for minor medical or surgical conditions have the attention of the Director at his two daily visits to the Infirmaries, which have day and night nurses on duty. Students developing serious conditions are promptly transferred from the Infirmaries to the University Hospital, where they come under the care of the Staff of the Hospital.

Questionnaires are sent out from the office of the Director of Student Health in the spring to all prospective students, advising certain medical and surgical care by their home physician or surgeon, such as the giving of typhoid or smallpox vaccine, removal of diseased tonsils, correction of errors of refraction, repair of hernia, or removal of chronic appendix. Important time is frequently lost in correcting these conditions after entrance into college, and the cost for this work must be borne by the students.

When students come to the University, they are given careful physical examination. Any physical defects are recorded along with the records from the family physicians. All students are requested to be successfully vaccinated against smallpox before admission to the University. It is urgently advised that they take typhoid vaccine if they have not done so within three years.

#### PUBLICATIONS COUNCIL

The student publications of the University are under the control of a council that was established in 1924 and reorganized by the Executive Committee of the University in 1935, and is constituted as follows: three (3) members from the University Staff appointed by the President of the University; two (2) members from the alumni appointed by the President of the University; six (6) men from the Junior and Senior classes, elected by the students in Trinity College; four (4) women from the Junior and Senior classes, elected by the students in the Woman's College;



and three (3) editors and three (3) managers of student publications, ex officio members without any voting power. With the advice of the Council, the President of the University appoints each year for each publication an advisory committee of three (3) members from the Staff of the University.

No student publication can be started at the University without the approval of the Council.

### RELIGIOUS EXERCISES

Chapel exercises are conducted on Tuesday, Wednesday, and Friday throughout the academic year at 12:30 P.M. on the campus for men; and, on the campus for women, at 12:30 P.M. on Tuesday and 12:40 P.M. on Wednesday and Thursday. Preaching services are held on Sunday at 11:00 A.M. in the University Chapel. Organ recitals are given on Sunday afternoons. In the summer carillon and organ recitals are given twice a week.

## UNIVERSITY LECTURES

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### THE AVERA BIBLE LECTURES

The Avera Bible Fund was established in 1897 in honor of the late W. H. Avera by his wife, who donated \$2500 for this purpose. The income from this amount is used to establish a lectureship and to provide a collection of books on Biblical Literature.

### JOHN MCTYEIRE FLOWERS LECTURES

The John McTyeire Flowers Lectures, established by Mr. B. N. Duke as a memorial to John McTyeire Flowers, a young alumnus of Trinity College who died in the Far East in 1905, were inaugurated in 1921.

### UNIVERSITY LECTURE SERIES

The University Series of Lectures is given each year. These lectures are under the supervision of the committee on public lectures of the faculty.

### DUKE UNIVERSITY DAY

In commemoration of the signing by the late James B. Duke, on December 11, 1924, of the Indenture of Trust creating the Duke Endowment, under which Trinity College was expanded into Duke University, appropriate exercises are held on Duke University Day at the University. Various local alumni groups celebrate the anniversary in connection with their annual meetings, some of which are held on December 11 but most of them on other dates during the Fall.

## **ALUMNI ORGANIZATIONS**

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### **GENERAL ALUMNI ASSOCIATION**

The Alumni Association of Duke University is composed of the male graduates and former students of Trinity College and Duke University. The Association gives its annual luncheon on Monday of Commencement Week at which a message of greeting is given by a representative of the class holding its twenty-fifth anniversary reunion. The annual business meeting of the Association is held at this time.

### **GENERAL ALUMNAE ASSOCIATION**

The Alumnae Association of Duke University is composed of the women graduates and former students of Trinity College and Duke University. The Association joins with the Alumni Association in the annual luncheon on Monday of Commencement Week, holding its annual business meeting immediately afterward.

### **GENERAL ALUMNI COUNCIL**

To give definite direction and supervision in the campaign for the erection of the Alumni Memorial Gymnasium, and for other purposes, an Alumni Council was provided for at the June, 1919, meeting of the Alumni Association. Since that time the Council has developed into a working body for the promotion of alumni interests by reason of its size and frequency of meetings. The membership is made up of representatives from local associations; class representatives, elected by reunion classes on the occasion of their fifth anniversary, or a multiple thereof; and officers of the Alumni Association.

### **GENERAL ALUMNAE COUNCIL**

At the June, 1925, meeting of the Alumnae Association the Alumnae Council was organized to function in a manner similar to that of the Alumni Council, in the interest of the former women students and of the University. Its purpose and form of organization is very much the same as those of the Alumni Council.

### **THE ALUMNI OFFICE**

The General Alumni Office was organized to promote the work of the local alumni and alumnae associations and to co-ordinate the various activities of the General Alumni and Alumnae Associations and the General Alumni and Alumnae Councils. Sixty-five county and local alumni associations have been formed in North Carolina and other states.

**THE ALUMNI REGISTER OF DUKE UNIVERSITY**

*The Alumni Register of Duke University* is a monthly magazine published by the Alumni Association in the interest of the alumni and the University. It aims to keep the alumni in touch with one another and with the University.

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**APPOINTMENTS OFFICE**

With the co-operation of the Alumni Office, the University maintains an Appointments Office, in charge of a whole-time director, to serve graduates and advanced students of the institution on the one hand, and those who desire well-qualified persons for teaching and commercial positions on the other hand. The Appointments Office is divided into two sections: (1) the Division of Teacher Placement and (2) the Commercial Positions Division.

**DUKE UNIVERSITY NEWS SERVICE**

The Duke University News Service is the official publicity agency of the University for the purpose of sending out news to the press. It functions as a division of the Department of Public Relations and Alumni Affairs.

## FEES AND EXPENSES

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The following tables show the general fees and charges collected from all students and the special fees collected from those taking courses in the sciences and in history. All fees for each semester are due and payable, unless otherwise specified, at the time of registration at the beginning of that semester, and no student is admitted to classes until arrangements have been made with the Treasurer of the University for the settlement of fees.

### GENERAL FEES

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic Fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage Fee, payable annually at the time of first registration.....	1.00
Medical Fee, per semester.....	5.00
Library Fee, per semester.....	5.00
Commencement Fee, payable annually at the beginning of the second semester.....	3.00
Publication Fee:	
First semester.....	2.50
Second semester.....	3.00
Diploma Fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### LABORATORY AND MATERIALS FEES

Botany 1, 2, 52, 55, 101, 104, 156, 202, 204, 221, 255, and 256.....	\$ 2.50
Botany 51, 103, 151, 203, 216, and 252.....	5.00
Forest Botany 224 and 253.....	2.50
*Chemistry 1, 2, 61, 70, 81, 142, 153, 154, 215, 216, 231, 232, 260, 261, and 262.....	7.00
Chemistry 151, 152, 241, 242, 253, and 254.....	8.50
Education 1, 58, 68, and 101.....	1.00
Education 54.....	2.00
(See note under history below.)	
Education 112, 115, 116, 122, and 131.....	7.50
Education 208 (for testing materials in lieu of text).....	2.50
Engineering	
Civil S10 and S110—See <i>Summer School Bulletin</i> .	
Civil 11, 107, 111, 112, 113, 114, 117, 118, 119, 123, 124, 143, 144, and 240.....	2.00
Electrical 153, 154, 161, 162, 163, 258, 261, 262.....	2.00
Mechanical 86, 189, 190, 193, 194, 199, and 200.....	2.50
Forestry 224, 253, 259, 260, 264, 357a, and 358a.....	2.50
Forestry 261, 351, 352, 354, 357b, 358b.....	5.00
Geology 51, 52, 101, 151, and 152.....	2.50
Geology 102.....	5.00
Field trip in Geology 51-52 and 101-102 at cost.	

\* When the laboratory in Chemistry 153-154 supplements that of another course and is taken simultaneously with such course no fee is charged with Chemistry 153-154.

History 91 and 92.....	3.00
No texts are required in these courses, but a fee of \$3.00 is charged, and books are placed in the Library for the use of those taking the courses. This fee is payable at the beginning of the semester and is collected through the office of the Treasurer of the University.	
Physics 1 and 2.....	2.00
Physics 57, 58, 62, 104, 205, 206, 215, 216, 217, 218, and 219.....	3.00
Physics 51, 52, and 106.....	5.00
Zoology 1, 2, 92, 161, 174, 204, 222.....	3.00
Zoology 53, 151, 156, 224, and 229.....	5.00
Zoology, all other advanced laboratory courses.....	3.00

### TEACHERS TAKING COLLEGE COURSES

Teachers in nearby schools, taking one or two courses, are required to pay a registration fee of \$5.00 each semester and a tuition fee of \$3.00 per semester-hour of credit in addition to any regular laboratory fee or other fees collected from those students taking the courses.

### ESTIMATED EXPENSES FOR AN ACADEMIC YEAR

The necessary expenses of a student are moderate; the University dormitories provide thoroughly comfortable and wholesome living conditions at a minimum of cost, while all charges made by the University have been kept low. Incidental expenses depend naturally upon the tastes and habits of the individual, but the actual necessary college expenses for one year, including board, room-rent, and such University fees as tuition, matriculation, commencement, library, damage, and medical, vary from \$574.50 to \$639.50. Books and laundry are not included in these figures.

### LIVING ACCOMMODATIONS FOR MEN

Single room, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus .....	\$75.00
Double room, per student, per semester—Craven, Crowell, and Kilgo Quadrangles, West Campus.....	62.50
Double room, per student, per semester—Southgate Hall, East Campus..	50.00
Double room, per student, per semester—Epworth Hall, East Campus..	30.00

There are three groups of resident houses designated as Craven, Crowell, and Kilgo Quadrangles on the West Campus. The rooms are single, double, or arranged in suites of two rooms for four students. There are thirty-one houses within the three groups designated by the letters of the alphabet.

There are also two dormitories on the East Campus used for men—Southgate and Epworth Halls. All of these rooms are equipped for two persons. Students in the College of Engineering are expected to live in either Southgate or Epworth, which are located near the College of Engineering. Room reservation fees and applications for room assignments should be addressed to the Director in Business Division, East Campus.

Kilgo Quadrangle (eight houses) has been set aside as a Freshman Dormitory. A portion of Southgate Hall has also been reserved for



Freshmen studying Engineering. All Freshmen, except those living at home with their parents, are required to room in one of these dormitories.

Rooms are reserved only for applicants who have been officially accepted by the University, upon application to the Director in the Business Division, Duke Station, Durham, North Carolina. A reservation fee of \$25.00 must accompany the application for a room. The reservation fee is deducted from the room charges at the time of registration for the fall semester. An applicant who is accepted and has a room reserved is not entitled to a refund of the reservation fee unless the request is made on or before August 1.

A resident student in order to retain his room for the succeeding year is requested to make application accompanied by a reservation fee of \$25.00 between April 15 and May 15 at the office of the Director in the Business Division. All rooms which have not been reserved on or before May 15 will be considered vacant for the succeeding year and will be reserved in the order in which applications are made.

Rooms are rented for no shorter period than one semester, or in the case of a medical student, one quarter, unless by special arrangement with the Director in the Business Division. A period of occupancy other than a semester or quarter and without special arrangement will be charged at a minimum rate of \$1.00 each day.

The authorities of Duke University do not assume the responsibility of selecting and assigning roommates, though they will gladly render any assistance possible.

#### DORMITORY REGULATIONS

Duke University is particularly eager that its students shall have the best dormitory life to be found in any institution, and to encourage this has provided buildings and equipment which are not surpassed. The Institution asks and believes that in return each student will respond to this effort by arranging his personal belongings in an orderly manner, and by caring for the buildings and furniture as he would do in the home of a friend. The following regulations are offered as a guide and a reminder that care is desired.

1. The student will be held responsible for any damage to the room or furnishings during the rental period, and will pay for all damage caused by his neglect, misuse or abuse of any part of the University property. Inspections will be made throughout the college year to observe the condition of the rooms and to advise students concerning the care of rooms, if necessary.

2. Maids will prepare the rooms daily except Sunday, the service beginning promptly at 8:00 o'clock A.M. and ceasing at 1:00 o'clock P.M., thereby giving the student complete use of his room during the afternoon.

3. University furniture or furnishings must not be removed from the room in which they have been placed by the University.

4. Electric wiring, door locks, window screens, steam or water lines should not be changed or added, since the University supervises and makes such changes as are necessary and advisable.

5. Pictures, pennants, clippings should be hung from the picture moulding and not tacked or pasted on walls or woodwork.

6. Each student is expected to supply necessary sheets, blankets, pillows, rugs and curtains. Furniture, beds and mattresses (39" x 74"), tables, chairs, dressers, mirrors, and window shades are furnished by the University.

7. All trunks and heavy luggage will be stored in the trunk rooms. Janitors will remove the trunks from the hallways to the storage rooms when they are unpacked.

8. The exchange of rooms or keys should be arranged for at the office. Any exchanges made otherwise will subject the participant to charges for both rooms.

9. The use or possession of intoxicating liquors, wines or beer, and gambling in any manner in any of the buildings or on the grounds of Duke University are forbidden.

10. Animals shall not be kept in the dormitories.

11. Women are permitted in the dormitories only when accompanied by the University Hostess.

12. The use of dormitory rooms as a sales office or storeroom, or the solicitation for sales or gifts, within the buildings or on the grounds is prohibited except by appointees of the University.

### LIVING ACCOMMODATIONS FOR WOMEN

The Woman's College campus, known as the East Campus, is situated about a mile and a quarter from the West Campus, with a private road connecting the two.

*Houses*—The seven residence houses on the East Campus are Alspaugh, Aycock, Bassett, Joseph G. Brown, Giles, Jarvis, and Pegram. A plan of the houses will be sent upon request to the Director in the Business Division, College Station, Durham, North Carolina. Each house has a resident head of house and paging system for announcing visitors.

*Rooms*—All questions concerning rooms should be addressed to the Director in the Business Division. The students' rooms are single, double, or arranged in suites of two rooms for two students.

*Room Furnishings*—Rooms are supplied with all necessary furniture. Curtains, towels, sheets, pillow-slips, blankets, and heavy bed covering, etc., are furnished by the students. Sash curtains of a standard type are required and can be bought at the College Store. Draperies, small scatter rugs, and study lamps can be brought from home or bought at reasonable prices from the College Store or in the city. Large rugs and heavy overstuffed furniture may not be brought into the dormitories.

#### *Room Rent*—

Single room, per student, per semester, Giles, Alspaugh, Pegram, Bassett, Brown and Jarvis Houses.....	\$87.50
Double room, per student, per semester, Giles, Alspaugh, Pegram Bassett, Brown and Jarvis Houses.....	62.50
Single room, per student, per semester, Aycock House.....	75.00
Double room, per student, per semester, Aycock House.....	50.00

*Room Reservation*—A room reservation fee of \$25.00 is required before any room reservation can be made for new or returning students. This fee is deducted from the room charges at the time of registration for the fall semester. Applicants for admission are requested not to send the room reservation fee until notified of acceptance. Those who make application and are accepted will not be entitled to have the reservation fee refunded unless the request is made on or before July 15.

No room assignments will be made for new students until they have been officially accepted by the Council on Admissions. The room reservation fee of \$25.00 is payable immediately upon notification of acceptance by the Council on Admissions. If room reservation fee has not been received within ten days after notification of acceptance by the Council on Admissions, the admission will be cancelled.

Details relative to the signing of rooms by resident students will be posted on dormitory bulletin boards about April 15. Resident students have the right

to retain their rooms for ensuing year or to sign for new ones in the order of their class, beginning with the Seniors. The new students are then assigned the remaining rooms, and in so far as possible, the type of room which they prefer. The University is responsible for the fall semester only for securing roommates for new students desiring double rooms. After a student has been a resident for one semester, the responsibility for securing and keeping a roommate is transferred to the student. If a student occupying a double room does not have a roommate by the date posted, approximately two weeks after the beginning of the semester, she will be required to pay double rent. The University is glad to co-operate in assisting the student to find a roommate.

When a room is once engaged by a student no change will be permitted except with the consent of the Director in the Business Division. Leaving one room and occupying another without permission is strictly against the rule and will render the offender liable to a charge for both rooms for the entire semester. No occupant is permitted to rent or sublet a room to another occupant. Rooms are rented for no shorter period than one semester. When a student leaves school before the end of the semester, the charge is \$1.00 per day unless the total charge on this basis is in excess of the room rent for the semester. All undergraduates who are not residents of Durham are required to live in the dormitories unless they are living with their parents or near relatives. An undergraduate woman who is over twenty-one years of age and who wishes to live in the city may make special arrangements with the Dean. Provision is made for graduate students to live on the campus.

No visitors are permitted in any sections of the dormitories which are occupied by women except by permission of the office of the Head of the House. Merchandising, solicitation, or advertising of any type is strictly forbidden within the dormitories.

### BOARDING ACCOMMODATIONS

*Trinity College, West Campus.*—Beginning with the academic year 1930-31 the University opened its dining hall in the Union on the West Campus with accommodations sufficient to provide in a superior way for all resident men students. Charges for board do not exceed an average of \$25.00 per month.

The Union is the logical center of student activities for men, and it will be found desirable for male students to board in its supervised halls. In the Union are located the University Post Office, the University Store, the University Barbershop, and all publication staff offices.

In addition to the Union dining halls, the Coffee Shop is operated for the convenience of students and visitors.

*Woman's College, East Campus.*—The dining halls of the Woman's College are situated in the Union, the student center, on the East Campus. No resident woman is permitted to board elsewhere than at this Union. Board is \$112.50 per semester.

Because of the large number of those served in the Union dining halls, it is not possible to arrange special diets for individual students. Special diet for the sick is served in the Infirmary.

The Union includes a Faculty dining room, a lounge, and other rooms for various student activities.

*College of Engineering, East Campus.*—Meals are provided in Southgate Building at the same rate which prevails in the other University dining halls.

### LAWS REGARDING PAYMENTS

The Executive Committee of Duke University has enacted the following regulations which govern the payment of all fees due the University:

1. The President and the Treasurer of the University have no authority to suspend or in any way alter these regulations.
2. Matriculation and tuition fees are never refunded.
3. Any student who has failed to pay his bills on the dates advertised in the catalogue is denied the right to attend classes until his account is settled in full.
4. No student is considered by the Faculty as an applicant for graduation until he has settled with the Treasurer for all of his indebtedness to the University.
5. No student who has not settled all his bills with the Treasurer of the University is allowed to stand the mid-year or final examinations of the academic year.

When a student wishes his bills sent to his parent or guardian, the student or his parent or guardian must so notify the Treasurer of the University in writing in due time, but this in no way releases the student from liability to established penalties, if his bills are not paid on the dates advertised.

### TRANSCRIPTS

Students desiring to transfer from Duke University to another institution are entitled to one transcript of their record. A charge of \$1.00 is made for each additional copy.

## SCHOLARSHIPS, LOANS, AND EMPLOYMENT AID

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Through a committee of the Faculty appointed by the President to deal with problems of rendering financial assistance to needy and worthy undergraduates, both of Trinity College and the Woman's College, Duke University annually awards available scholarships, administers loan funds, and supervises student employment.

All student loan funds are kept separate and distinct from all other endowments or holdings of the University. Though some donors or their representatives may and do suggest terms and beneficiaries, no loan is made without the approval and consent of the Committee.

The scholarship funds are, in the main, endowed, though a limited number, and notably the honorary awards in recognition of scholastic merit, are financed through current funds of the University. As with the loan funds, donors of endowed scholarships may, and frequently do, make stipulated terms of the conditions of the award; but in all cases the responsible committee of the University reserves the right to approve and announce all awards. All scholarship endowments are held in trust by the University.

With few exceptions, loan and scholarship awards are limited to the amount of the tuition charges.

Prospective and old students must, if they will stop to consider, realize that no college or university has scholarship, loan, or job resources sufficient to meet all, or even a large per cent, of the requests made. A student, new or old, should realize that before he seeks aid of any institution, his need should be imperative. A student who accepts aid from a college or university when he could have done without it, unwittingly deprives some other would-be student, probably equally as worthy and more needy, of a chance to secure higher education at the institution.

Before applying to any college for aid a student should first have exhausted all means of aid from his parents, kinsfolk, interested friends, and commercial or civic agencies in his home locality.

A list of undergraduate scholarships and loans, and the procedure and terms of making application, are set forth below.

### SCHOLARSHIP FUNDS

*The Banks-Bradshaw Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Herbert J. Bass Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Christian Education Scholarship* is based on the annual earnings from a \$6,000 scholarship endowment.

*The E. M. Cole Scholarships* are based on the annual earnings from a \$10,000 scholarship endowment. Awards are limited to undergraduate ministerial students.



*The W. L. Cuninggim Scholarship* is based on the annual earnings from a \$7,500 scholarship endowment. Preference, at the request of the donors, is given to students entering Duke University from the Methodist Orphanage of Raleigh, North Carolina.

*The Arthur Ellis Flowers Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The Colonel George W. Flowers Scholarship* is based on the annual earnings from a \$5,000 scholarship endowment.

*The B. D. Heath Scholarship* is based on the annual earnings from a \$2,000 scholarship endowment. Preference is given to students from Union County, North Carolina.

*The Judd Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment. In making this award the donor or a representative of his family is to be consulted.

*The Frank S. Lambeth Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The O. G. B. McMullan Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The W. H. Moore Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. A. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The J. M. Odell Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The E. J. Parrish Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The John T. Ring Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The George W. Watts Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

*The C. E. Weatherby Scholarship* is based on the annual earnings from a \$1,000 scholarship endowment.

A friend of Duke University has set up a scholarship fund for the use of students preferably from Durham and Perquimans counties of North Carolina. Descendants of the donor, irrespective of their place of residence, are to be given consideration for such awards. The donor has designated that a representative of his family should be consulted in the making of awards. There are at present fifteen of these scholarships. They have no fixed value. Circumstances in all cases determine the amounts of the awards; usually, however, these scholarships are sufficient in amount to cover tuition charges.

A friend of Duke University has set up a scholarship fund the income of which is for the use of students preferably from the states of North Carolina, South Carolina, and Louisiana.

*The Angier B. Duke Memorial, Incorporated*, awards through the Scholarship Committee of Duke University four scholarships with an annual value of \$250 each to undergraduate students. These scholarships are awarded as follows: one on the basis of merit and necessity to an



accredited high or preparatory school graduate entering the Freshman Class of Duke University; and one each to a member of the Sophomore, Junior, and Senior classes on the basis of merit, necessity and worthy individual contributions to university life. This fund is primarily for student loan purposes and is more fully described hereafter under "Loan Funds."

Fifteen honorary scholarships paying tuition are annually awarded to undergraduates. Five are held by members of the Sophomore Class, five by members of the Junior Class, and five by members of the Senior Class. Sophomore scholarships are awarded on the basis of scholastic work of the Freshman year; Junior scholarships on the basis of the scholastic work of the Sophomore year, and Senior scholarships on the basis of the scholastic work of the Junior year. Scholastic attainments and character are the sole bases of these awards.

Where funds are available and the need justifies, Duke University may award in any given year undergraduate scholarships partly or wholly covering tuition charges. Not in excess of fifty such awards shall be made.

Application for scholarship aid should be made to the Scholarship Committee, Secretary's Office, Duke University Station.

An application for a scholarship may not be made formally by a prospective student until application for admission has been filed, all necessary credentials presented and notification of acceptance given.

### LOAN FUNDS

*The Angier B. Duke Memorial, Incorporated*, administers through an advisory committee of the officers of the University, a loan fund for students of the University. Only the earnings of this fund are available for loan purposes.

The Committee of University officers also administers other endowed loan funds established for the benefit of students of Duke University. The amount available each year depends on the annual earnings and on the amount of loans repaid.

Although the total amount of loan aid is considerable, the calls for assistance far exceed the amount available for lending purposes each year. The Committee in charge of these funds, therefore, reserves the right to select from the applicants those who in character, personality, general promise, scholastic merit, and degree of financial need, are most deserving of consideration.

The loan funds are administered in accordance with the following regulations:

1. No loan shall be made to a student who violates any of the regulations of the University or whose classwork is not satisfactory to the Faculty.

2. As a general policy a student is not potentially eligible for loan assistance until he has been in residence at least one semester and until those responsible for the administration of loan funds have had an oppor-

tunity to acquaint themselves with the worthiness and the need involved in any particular case.

3. Loans will be made only to students who are taking approved courses of study that lead to a degree, and all loans must be arranged for not later than one week after the beginning of a semester.

4. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money shall be advanced before a note with approved security is in the hands of the Treasurer of the University.

5. No loan will be made to defray any other expenses than those incurred during the academic year for tuition, for matriculation, or for room-rent.

6. Interest at a rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

7. Applications for loans should be made to the Loan Committee, Secretary's Office, Duke University Station. A formal application for loan assistance may be made only on blanks furnished in the Secretary's Office at the time of registration. The granting or withholding of a loan is a matter entirely within the discretion of the Loan Committee. A student is expected to use all other possible means of securing financial assistance before applying for aid from the Loan Fund.

#### EMPLOYMENT

A number of students each year secure part-time employment on the University campus and in the city. Those in need of such employment may apply to the Secretary of the Committee on Student Aid, Secretary's Office, Duke University. No definite number of such places can be promised. Available places will be assigned in accordance with the merit and the need of the applicants.

## HONORS AND PRIZES

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To be eligible for Honors a student must earn during the year a credit of not less than thirty semester-hours. Students in the Freshman, Sophomore, and Junior classes who earn an average of at least two and one-half quality-points per semester-hour are given Honors. All semester-hours on which a student receives a grade are counted in the determination of Honors.

The degree of Bachelor of Arts or of Bachelor of Science with distinction is conferred under the following rules:

Students who have completed a minimum of ninety semester-hours in Duke University are eligible for general Honors at graduation. Those who earn an average of at least two and one-half quality-points per semester-hour are recommended for a degree *magna cum laude*. Those who earn an average of at least two and three-fourths quality-points per semester-hour are recommended for a degree *summa cum laude*. All semester-hours taken in Duke University on which a student receives a grade are counted in the determination of Honors.

### MEDALS AND PRIZES

*The Wiley Gray Medal* was established by the late Robert T. Gray, Esq., of Raleigh, North Carolina, to be awarded annually in memory of his brother. It is given for the graduating oration that shall be, in the opinion of a committee appointed on the day of Commencement, the best speech, with respect to both declamation and composition.

*The Debate Council* authorizes the awarding of medals to members of the graduating class who have represented the University in at least two intercollegiate debates. The medals are given by the local chapter of the Tau Kappa Alpha Fraternity.

*The Southern History Prize* is awarded each year for the best essay dealing with a subject relating to Southern history. The prize is \$25 in cash donated by an anonymous friend of the University. The competition for the prize is conducted according to the regulations adopted by the Trinity College Historical Society.

*The Robert E. Lee Prize* is the gift of the Reverend A. W. Plyler, of the Class of 1892, and Mrs. Plyler. The sum of \$50 is awarded annually at Commencement, preferably to that member of the Senior Class who in character and conduct, in scholarship and athletic achievement, in manly virtues and the capacity for leadership, has most nearly realized the standard of the ideal student. The Dean of the College, the Graduate Manager of Athletics, and the President of the Student Council constitute a committee to draft and adopt regulations governing the award.

*The Dr. R. C. Parker Physics Prize.* Dr. R. C. Parker gave to Duke University a silver cup of Chinese manufacture to be used for the encouragement of scholarship in physics. The award is made annually by a committee from the Department of Physics, acting with the President of the University, to that student of Physics 1-2 who by the end of the academic year is judged to have shown the greatest promise as a student

of physics. The winner is chosen not only for his mathematical grades but also for his industry, growth in power of reasoning, originality of point of view, and skill in experimentation. The name of the winner is engraved on the cup which is given into his possession, subject to certain necessary regulations, until the next award is made.

*The Iota Gamma Pi Scientific Prize.* The Iota Gamma Pi Science Fraternity offers an annual prize of \$25 to a member of the Junior Class, majoring in science, who is judged to be the leading student in the scientific courses of the University. The fraternity submits to the judges a list of students eligible for the prize. The committee of award is composed of the Dean of the University and one member each from the Departments of Geology, Botany, Zoology, Chemistry, Physics, and Engineering. The departments concerned choose their own representatives on this committee. The award is made on the following basis: quality of scientific work, 50 points; personality and general ability, 30 points; quality of work in departments other than scientific, 20 points. The president of the fraternity publicly awards the prize in chapel during the second week in May.

*Alpha Kappa Psi Medallion.* This prize is offered each year to the member of the graduating class who makes the highest record in economics and business administration during his career at the University.

*The Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh Bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of Law School work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose.

*Julia Dale Prize in Mathematics.* This is a prize of books given annually to the undergraduate who shows the greatest proficiency in the study of the calculus.

*The Milmore Prize,* consisting of one year's subscription to the *Electrical World*, is awarded each year to that student from North or South Carolina graduating in the Department of Electrical Engineering, who, in the opinion of the Faculty of that department and as shown by his grades, has made the most progress in electrical engineering during his last year in college.

*The Pegram Chemistry Club Prize* will be awarded in the spring of each year for scholarship in chemistry, physics and mathematics. The prize is to consist of one year junior membership in the American Chemical Society, and a one year subscription to either the *Journal of the American Chemical Society*, or to *Industrial and Engineering Chemistry*. To qualify for this prize the student must (1) be enrolled as an undergraduate of Duke University, (2) be taking or have taken a fourth year chemistry course. The winner of this prize is to be selected by a committee consisting of at least one faculty member and at least two members of the Pegram Chemistry Club; the selection is to be based on the Quality Point average for all courses taken in chemistry, physics and mathematics. In case of a tie equal awards will be given.

## STUDENT ORGANIZATIONS AND ACTIVITIES

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*The Men's Association of Duke University* comprises all men students in Trinity College. It functions through its officers and a council to initiate policies and to oversee matters within the control of the student body. The council is composed of nine members: three executive officers, two representatives from the Senior Class, two from the Junior Class, one from the Sophomore Class, and one from Southgate Dormitory.

*The Women's Student Government Association* is similar in character to the men's association. Its council is composed of the officers of the association and ex officio of the Y.W.C.A. president and an undergraduate representative.

*The Young Men's Christian Association* and the *Young Women's Christian Association* are branches of the national student Christian Associations. Each body aims to enrich not only the religious life of its members as individuals but also to promote religious group activity. Delegates are sent each year to summer conferences, state conventions, interstate conventions, and the state Bible and missionary institutes. Every year a series of special religious services is held. The Open Forum Bible Class is conducted under the auspices of the Church Board.

Other organizations and activities include the following:

Bench and Bar Association (Pre-Legal Undergraduates); Classical Club; Debate Council (Men); Debating Club (Women); Duke Flying Club; Duke University Church (Interdenominational); Duke University Pre-Medical Society (Undergraduate Medical Group); Hesperian Union; Isotes (Independent Social Group—Women); Nereidian Club (Women); Poetry Club; Polity Club; Student Forum Committee (Women); Student Religious Council; The Duke Players; The Explorers' Club; The Ministerial Fellowship; Town Girls' Club; Undergraduate Writers; Women's Athletic Association; and W. H. Pegram Chemistry Club.

### HONORARY ORDERS AND FRATERNITIES (NATIONAL)

Alpha Kappa Psi (Economics); Chi Delta Phi (Literary—Women); Delta Phi Alpha (German); Kappa Delta Pi (Education); Omicron Chi Epsilon (Ministerial); Omicron Delta Kappa (Leadership—Men); Phi Beta Kappa (Scholarship); Phi Eta Sigma (Freshman Scholarship—Men); Pi Mu Epsilon (Mathematics); Sigma Delta Pi (Spanish); Sigma Pi Sigma (Physics); Sigma Xi (Scientific Society); Tau Kappa Alpha (Forensic); Tau Psi Omega (French); Theta Alpha Phi (Dramatic).

### HONORARY ORDERS AND FRATERNITIES (LOCAL)

Beta Omega Sigma (Sophomore—Men); Delta Phi Rho Alpha (Athletic—Women); 9019 (Scholarship—Men); Ivy (Freshman Schol-



arship—Women); Red Friars (Leadership—Men); Sandals (Sophomore—Women); Tombs (Athletic—Men); White Duchy (Leadership—Women).

#### ENGINEERING ORGANIZATIONS AND FRATERNITIES

American Institute of Electrical Engineering; American Society of Civil Engineering; American Society of Mechanical Engineers; Delta Epsilon Sigma (Honorary Engineering Fraternity); The Engineer's Club.

#### MUSICAL ORGANIZATIONS AND FRATERNITIES

Kappa Kappa Psi (National Band Fraternity); The Duke University Instrumental Music Association, comprised of members from Duke University Band, Duke University Orchestra, and chamber music groups; The Men's Glee Club; The Women's Glee Club; The University Chapel Choir; The Woman's College Orchestra; The Woman's Music Study Club.

#### SOCIAL FRATERNITIES (NATIONAL)

(The Men's Pan-Hellenic Council)

Alpha Tau Omega; Beta Theta Pi Club; Chi Phi Club; Delta Sigma Phi; Delta Tau Delta; Kappa Alpha; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Kappa Psi; Phi Kappa Sigma; Pi Kappa Alpha; Pi Kappa Phi; Sigma Alpha Epsilon; Sigma Chi; Sigma Nu; Sigma Phi Epsilon; Zeta Beta Tau.

#### SOCIAL SORORITIES (NATIONAL)

(The Women's Pan-Hellenic Council)

Alpha Delta Pi; Alpha Phi; Alpha Epsilon Phi; Delta Delta Delta; Delta Gamma; Kappa Alpha Theta; Kappa Delta; Kappa Kappa Gamma; Phi Mu; Pi Beta Phi; Sigma Kappa; Zeta Tau Alpha.

#### STUDENT PUBLICATIONS

(Publications Board)

*Archive* (Monthly); *Chanticleer* (Annual); *Chronicle* (Semiweekly); *Duke 'n' Duchess* (Monthly Humor).



# THE COLLEGE OF ENGINEERING

## ADMISSION

### GENERAL REGULATIONS

Admission to the College of Engineering of Duke University is on a selective basis, dependent upon the ability, attainments, and character of the applicant. No student is admitted until the Council on Admissions has received for him a scholastic record from school or college, a certificate of vaccination and of good health, and satisfactory evidence of good character and ability. Prospective students and relatives are invited to visit the University and the College of Engineering in particular. This would be advantageous to the applicant since it would enable him to acquaint himself with the facilities of the University, and to discuss possible courses of study.

Certain days are announced in the University Calendar each year for the registration, classification, and sectioning of students. Those students who are admitted later than the dates announced must pay to the Treasurer \$5.00 additional for the privilege of matriculation.

### ADMISSION TO COLLEGE OF ENGINEERING

An applicant for admission to the Freshman Class in engineering must have completed at least fifteen units of preparatory work, partly in required and partly in elective subjects. A unit represents a year of work in a subject in an accredited secondary school, provided the work done in that subject is approximately one-fourth of the annual amount of work regularly required in the school.

The subjects in which this credit may be offered and the maximum amount of credit acceptable in each subject are given in the following table:

UNITS		UNITS	
English .....	4	Botany .....	1
Latin .....	4	Zoology .....	1
Greek .....	3	General Biology .....	1
German .....	3	Physical Geography .....	1
French .....	3	General Science .....	1
Spanish .....	3	Agriculture .....	2
Mathematics .....	4	Mechanical Drawing .....	2
History and Civics .....	4	Woodwork, Forging, and	
Physics .....	1	Machine Work .....	2
Chemistry .....	1	Household Economics .....	2
		Commercial Subjects .....	3

For a detailed explanation of the units in the table above, see the definitions as set forth by the Southern Association of Colleges and Secondary Schools and other regional associations.

## ADMISSION BY CERTIFICATE

Applicants able to submit certificates of proficiency from accredited schools in subjects accepted for admission to the Freshman Class will be admitted without examination. These certificates must be properly made out on the regular blanks furnished by the University, signed by the principal of the school from which the applicant comes, and presented before or at the opening of the academic year. The applicant must have completed the course of the school from which he comes.

At least nine and one-half of the fifteen units required for admission must come from the following:

*Required Units*

English .....	3 units
Foreign Language .....	2 units
*Science .....	1 unit
History .....	1 unit
**Algebra .....	1½ or 2 units
Plane Geometry .....	1 unit

*Elective Units*

In addition to the above required units, sufficient elective units must be offered to make a total of fifteen. It is recommended that these electives be chosen from the following list:

Algebra .....	½ unit
Solid Geometry .....	½ unit
Trigonometry .....	½ unit
†German or French or Latin or Spanish or Greek .....	1 to 4 units
History or Civics (not the required unit) .....	1 to 3 units
Physics or Chemistry or Biology (not the required unit) .....	1 to 3 units

## ADMISSION BY EXAMINATION

Students who present fifteen units for admission from schools not accredited by the University, and students who present the proper units but whose grades are not acceptable, are required to validate their units by entrance examinations in English and in mathematics and such other tests as the University may prescribe, including the test required by the North Carolina College Conference.

Students who have not the required units in English or in mathematics but who are otherwise acceptable must, before admission, clear this deficiency by entrance examinations.

\* Wherever possible physics or chemistry should be offered for this requirement.

\*\* Examination required to validate offering.

† One elective unit in any of the above languages will be accepted for admission provided the language requirement has been satisfied without it. As many as four units will be accepted in any one of these languages.

### ADMISSION TO ADVANCED STANDING

Students may be admitted to advanced standing from other approved institutions under the following conditions: All applicants must have fulfilled the equivalent of the requirements for admission to the Freshman Class, must present official certificates of all work done in other institutions, and have honorable dismissal from the institutions they previously attended.

Applicants for advanced standing should present, so far as possible, subjects corresponding to those required at Duke University. Students admitted to advanced standing may not during their first semester elect more than the minimum number of hours required of the class which they enter except by permission of the Dean. Further, in addition to other requirements, a minimum of one full year in residence at Duke University with the satisfactory completion of at least thirty semester hours of work approved for Seniors, with an average grade of "C," is required of all candidates for the Bachelor's degree.

Students who have transferred from other colleges must, in order to make their provisional classification final, pass during their first year of residence not less than the equivalent of four year courses with an average grade of "C" or higher.

The date for the registration and classification of students with advanced standing from other institutions is announced in the University Calendar. Students who are admitted later than this date are required to pay to the Treasurer \$5.00 additional for the privilege of matriculating.

### FRESHMAN WEEK

The week immediately preceding the opening of College is set aside for the induction of Freshmen. During this period health examinations, psychological tests, and placement tests are given, on the basis of which Freshmen are sectioned in English and mathematics. The Freshmen are divided into groups for instruction in the use of the Library, in the regulations of the student body, and in all matters pertaining to the adjustment of the individual to a new environment. Attendance upon these exercises is required of all Freshmen.

### SPECIAL STUDENTS

Students of mature age not fully prepared to enter the Freshman Class may be admitted as special students and allowed to enroll for such work as they are prepared to carry. Further, they are required to take fifteen hours of classwork a week.

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### FEES AND EXPENSES

Information as to fees and expenses and room accommodations applicable to the College of Engineering is given, along with similar information for Trinity College and the Woman's College, on pages 129-134.

# **REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

## **GENERAL STATEMENT**

The studies for the degree of Bachelor of Science in Civil, Electrical, or Mechanical Engineering are designed for students who are preparing for civil, electrical, or mechanical engineering, as a profession, and lead to the following degrees: B.S. in C.E., B.S. in E.E., and B.S. in M.E.

Each of these degrees requires one hundred and thirty-eight semester-hours of work of which one hundred and twenty-two must be completed with an average grade of "C." Six semester-hours of electives must be taken in the Departments of Economics or of Political Science. If a foreign language is elected, it must be taken two years unless a student has sufficient entrance credits to enable him to pursue a more advanced course.

Prospective students in engineering should note that immediately after the final Freshman examinations in May or June they are required to attend a three-weeks course in plane surveying given under the direction of the Summer School.

## **GROUPS OF STUDIES FOR THE DEGREE OF BACHELOR OF SCIENCE IN CIVIL, ELECTRICAL, OR MECHANICAL ENGINEERING**

### **GROUP I**

#### **CIVIL ENGINEERING**

##### *Freshman Year*

FIRST SEMESTER	S.H.	SECOND SEMESTER	S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/> 17		<hr/> 17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

##### *Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics 8 .....	2
Surveying 11 .....	2	Materials 118 .....	3
Highways 15 .....	3	Highways 117 .....	2
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	<hr/> 18		<hr/> 17

### Junior Year

Strength of Materials 107.....	4	Hydraulics 108 .....	4
Curves and Earthwork 113.....	2	Curves and Earthwork 114.....	2
Structures 131 .....	4	Structures 132 .....	4
Engineering Elective .....	3	Engineering Elective .....	3
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	16		16

### Senior Year

Hydraulic Eng. 123.....	4	Hydraulic Eng. 124.....	4
Concrete 133 .....	3	Concrete 134 .....	3
Railroads 119 .....	3	Railroads 120 .....	2
Seminar 137 .....	1	Seminar 138 .....	1
Electives .....	6	Astronomy 112 .....	2
		Electives .....	5
	<hr/>		<hr/>
	17		17

## GROUP II

### ELECTRICAL ENGINEERING

#### Freshman Year

FIRST SEMESTER		SECOND SEMESTER	
	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2 .....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

#### Sophomore Year

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Electrical Engineering 51 .....	3	Electrical Engineering 52 .....	3
Economics 51 .....	3	Economics 52 .....	3
Steam Engineering 85 .....	2	Physical Education .....	
Physical Education .....			
	<hr/>		<hr/>
	18		17

#### Junior Year

Theory of D. C. Circuits 151 .....	3	Theory of A. C. Circuits 152 .....	3
Hydraulics 108 .....	4	Strength of Materials 107 .....	4
Electrical Circuits Lab. 161.....	1	Electrical Circuits Lab. 162 .....	1
Heat Power Eng. 181.....	3	Heat Power Eng. 182.....	3
Differential Equations 131 .....	3	Electrical Measurements 104 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 199 .....	1	Laboratory 200 .....	1
	<hr/>		<hr/>
	15		15

*Senior Year*

A. C. Machinery 257 .....	3	A. C. Machinery 258 .....	3
Electric-Pow. Trans. 159 .....	3	Electric-Pow. Stations 158.....	3
Communication 261 .....	3	Communication 262 .....	4
D. C. Machinery 155 .....	2	Seminar 166 .....	1
D. C. Machinery Lab. 163 .....	1	Electives .....	6
Seminar 165 .....	1		
Electives .....	6		
	<hr/>		<hr/>
	19		17

**GROUP III****MECHANICAL ENGINEERING***Freshman Year*

## FIRST SEMESTER

## SECOND SEMESTER

	S.H.		S.H.
Mathematics 9 .....	5	Mathematics 10 .....	5
Chemistry 1 .....	4	Chemistry 2.....	4
English 1 .....	3	English 2 .....	3
Physics 17 .....	3	Physics 18 .....	3
Drawing 1 .....	2	Drawing 2 .....	2
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	17		17

Three weeks of Surveying 10 in summer. Credit, 3 semester-hours.

*Sophomore Year*

Mathematics 59 .....	4	Mathematics 60 .....	4
Physics 57 .....	3	Physics 58 .....	3
Statics 7 .....	3	Kinetics-Mechanism 82 .....	4
Constructive Processes 79 .....	3	Steam Engineering 86 .....	3
Economics 51 .....	3	Economics 52 .....	3
Physical Education .....		Physical Education .....	
	<hr/>		<hr/>
	16		17

*Junior Year*

Hydraulics 185 .....	3	Machine Design 170 .....	3
Strength of Materials 107 .....	4	Internal Comb. Engines 186 .....	3
Electrical Engineering 153 .....	3	Electrical Engineering 154 .....	3
Thermodynamics 187 .....	3	Thermodynamics 188 .....	3
Mechanical Engineering		Mechanical Engineering	
Laboratory 189 .....	1	Laboratory 190 .....	2
Elective .....	3	Elective .....	3
	<hr/>		<hr/>
	17		17

*Senior Year*

Machine Design 171 .....	3	Aeronautics 198 .....	3
Power Plants 191 .....	3	Industrial Engineering 192 .....	3
Mech. Eng. Laboratory 193.....	2	Mech. Eng. Laboratory 194.....	2
Heating and Ventilation 195 .....	2	Refrigeration 196 .....	2
Seminar 173 .....	1	Seminar 174 .....	1
Electives .....	6	Electives .....	6
	<hr/>		<hr/>
	17		17



# COURSES OF INSTRUCTION OF COLLEGE OF ENGINEERING

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NOTE: Courses primarily for Freshmen and Sophomores are numbered from 1 to 99; those primarily for Juniors and Seniors from 100 to 199; those primarily for Seniors and graduates from 200 to 299. The amount of credit for each course is given in semester hours following the description of the course.

Odd-numbered courses are offered in the fall semester and even-numbered courses are offered in the spring semester. Double numbers indicate that the course is a year course and must be continued throughout the year if credit is received.

This is a condensed description of courses. For a full description, see the *Bulletin of the College of Engineering*.

PROFESSOR HALL, DEAN; PROFESSOR BIRD, CHAIRMAN CIVIL ENGINEERING; PROFESSOR SEELEY, CHAIRMAN ELECTRICAL ENGINEERING; PROFESSOR WILBUR, CHAIRMAN MECHANICAL ENGINEERING; ASSISTANT PROFESSORS MEIER, REED, AND WATSON; MESSRS. CHAPMAN, KRAYBILL, PIGAGE, THEISS, VAIL, AND WILLIAMS

## GENERAL ENGINEERING

- |   |                 |
|---|-----------------|
| 1-2. Engineering Drawing.—4 s.h.                                  | MR. PIGAGE      |
| 5. Descriptive Geometry.—2 s.h.                                   | MR. PIGAGE      |
| 7. Statics.—Prerequisites: courses 1 and 2, Mathematics 9 and 10. | 3 s.h.<br>STAFF |
| 8. Kinetics.—Prerequisites: course 7, and Mathematics 59.         | 2 s.h.<br>STAFF |
| 107. Strength of Materials.—Prerequisite: course 7.               | 4 s.h.<br>STAFF |
| 108. Hydraulics.—Prerequisite: course 7.                          | 4 s.h.<br>STAFF |

## CIVIL ENGINEERING

PROFESSORS BIRD AND HALL; ASSISTANT PROFESSOR WATSON; MR. WILLIAMS

- |   |                       |
|---|-----------------------|
| S10. Plane Surveying.—Prerequisites: course 1, and Trigonometry.            | 3 s.h.                |
| 11. Higher Surveying.—Prerequisite: course 10.                              | 2 s.h. MR. WILLIAMS   |
| S110. Plane Surveying.—Prerequisites: Engineering Drawing and Trigonometry. | 3 s.h.                |
| 111. Higher Surveying.—Prerequisite: course 10 or 110.                      | 3 s.h.                |
| 112. Field Astronomy.—Prerequisite: course 11.                              | 2 s.h. PROFESSOR BIRD |
| 113-114. Curves and Earthwork; Highways.—Prerequisite: course 10.           | 4 s.h. MR. WILLIAMS   |
| 15. Highway Engineering.—   | 3 s.h. MR. WILLIAMS   |
| 117. Highway Engineering.—Prerequisite: course 15.                          | 2 s.h. MR. WILLIAMS   |

118. Materials of Engineering.—2 or 3 s.h. MR. WILLIAMS
- 119-120. Railroad Engineering.—Prerequisite: course 113-114. 5 s.h.  
PROFESSOR BIRD AND MR. WILLIAMS
- 123-124. Hydraulic Engineering.—Prerequisite: course 108. 8 s.h.  
PROFESSOR HALL
131. Steel Structures—Stresses.—Prerequisite: course 7. 4 s.h.  
PROFESSOR BIRD
132. Steel Structures—Design.—Prerequisites: courses 107 and 131. 4 s.h.  
PROFESSOR BIRD
133. Reinforced Concrete.—Prerequisite: course 107. 3 s.h.  
PROFESSOR BIRD
134. Masonry Structures.—Prerequisites: courses 107 and 133. 3 s.h.  
PROFESSOR BIRD
- 137-138. Seminar.—2 s.h. STAFF
- 143-144. Projects in Civil Engineering.—3-6 s.h.  
PROFESSORS BIRD AND HALL
- E-240. Indeterminate Structures.—Prerequisites: course 131 and ability to read French or German. 3 s.h.  
PROFESSOR BIRD

### ELECTRICAL ENGINEERING

PROFESSOR SEELEY; ASSISTANT PROFESSOR MEIER; MESSRS. KRAYBILL  
AND RANSON

- 51-52. Survey of Electrical Engineering.—Prerequisites: Freshman mathematics and concurrent physics. 6 s.h. ASSISTANT PROFESSOR MEIER
151. Theory of Direct Current Circuits.—Prerequisites: course 51-52, Physics 57-58, Mathematics 59, 60. Mathematics 131 should be taken concurrently. 3 s.h. MR. RANSON
152. Theory of Alternating Current Circuits.—Prerequisites: course 151, Mathematics 131. 3 s.h. ASSISTANT PROFESSOR MEIER
- 153-154. Principles of Electrical Engineering.—Prerequisite: Physics 57-58. 6 s.h. MR. RANSON
155. Direct Current Machinery.—Prerequisites: courses 151, 161-162. 2 s.h. ASSISTANT PROFESSOR MEIER
156. Electric Transportation.—Prerequisites: courses 151, 152, 161-162, or 153-154. 3 s.h. MR. RANSON
158. Electric-Power Stations.—Prerequisites: courses 151, 152, and 187-188. 3 s.h. MR. RANSON
159. Electric-Power Transmission.—Prerequisites: courses 151, 152. 3 s.h. PROFESSOR SEELEY
- 161-162. Electrical Circuits Laboratory.—2 s.h. PROFESSOR SEELEY
163. Direct Current Machinery Laboratory.—1 s.h. ASSISTANT PROFESSOR MEIER
- 165-166. Electrical Engineering Seminar.—2 s.h. STAFF

257-258. Alternating Current Machinery.—Prerequisites: courses 152, 155.  
6 s.h. ASSISTANT PROFESSOR MEIER

261. Communication Engineering, Audio Frequency.—Prerequisites:  
courses 151, 152 and Mathematics 131. 6 s.h. PROFESSOR SEELEY

262. Communication Engineering, Radio Frequency.—Prerequisite: course  
261. 4 s.h. PROFESSOR SEELEY

263-264. Mathematical Analysis of Electrical Circuits.—Prerequisites:  
courses 151, 152 and Mathematics 131. 6 s.h. PROFESSOR SEELEY

E.265-266. Projects in Electrical Engineering.—3-6 s.h.  
PROFESSOR SEELEY AND STAFF

## MECHANICAL ENGINEERING

PROFESSOR WILBUR; ASSISTANT PROFESSOR REED; MESSRS. CHAPMAN,  
PIGAGE AND WATSON

79. Constructive Processes.—Prerequisite: Chemistry 2. 3 s.h.  
MR. CHAPMAN AND MR. PIGAGE

82. Kinetics-Mechanism.—Prerequisites: G. E. 2, G. E. 7, Mathematics  
59. Corequisite: Mathematics 60. 4 s.h.  
ASSISTANT PROFESSOR REED AND MR. CHAPMAN

85. Steam Engineering.—Prerequisite: Physics 18. 2 s.h.  
MR. CHAPMAN

86. Steam Engineering.—Prerequisite: Physics 18. 3 s.h.  
MR. CHAPMAN AND MR. PIGAGE

170-171. Machine Design.—Prerequisites: G. E. 107, M. E. 79, M. E. 82.  
6 s.h. ASSISTANT PROFESSOR REED

173-174. Seminar.—2 s.h. STAFF

175-176. Projects in Mechanical Engineering.—3 s.h.  
PROFESSOR WILBUR AND STAFF

181-182. Heat Power Engineering.—Prerequisites: M. E. 85, Mathematics  
60. 6 s.h. ASSISTANT PROFESSOR REED

185. Hydraulics.—Prerequisite: course 82. 3 s.h. MR. CHAPMAN

186. Internal Combustion Engines.—Prerequisite: M. E. 187. 3 s.h.  
PROFESSOR WILBUR

187-188. Engineering Thermodynamics.—Prerequisite: course 86 and  
Mathematics 60. 6 s.h. PROFESSOR WILBUR

189-190. Junior Mechanical Engineering Laboratory.—Prerequisites:  
course 86 and course 187-188 concurrently. 3 s.h. MR. CHAPMAN

191. Power Plant Calculations.—Prerequisites: M. E. 187-188 or 181-182.  
3 s.h. PROFESSOR WILBUR

192. Industrial Engineering.—3 s.h. MR. PIGAGE

193-194. Senior Mechanical Engineering Laboratory.—Prerequisite: M. E.  
190. Corequisites: M. E. 191, M. E. 195, M. E. 196. 4 s.h.  
ASSISTANT PROFESSOR REED

195. Heating and Air Conditioning.—Prerequisites: M. E. 188 or M. E. 182. 2 s.h. ASSISTANT PROFESSOR REED

196. Refrigeration.—Prerequisites: M. E. 188 or M. E. 182, and M. E. 190 or M. E. 200. 2 s.h. ASSISTANT PROFESSOR REED

198. Aeronautics.—Prerequisites: courses 171 and 185. 3 s.h. MR. CHAPMAN

199-200. Junior Mechanical Engineering Laboratory.—Prerequisite: M. E. 85. PROFESSOR WILBUR

1-2. General Inorganic Chemistry—8 s.h. STAFF

### REQUIRED NON-ENGINEERING SUBJECTS\*

1-2. English Composition.—6 s.h. STAFF

53. English Composition.—3 s.h. STAFF

9-10. Engineering Mathematics.—10 s.h. STAFF

59. Differential Calculus.—Prerequisite: course 9-10, or equivalent. 4 s.h. STAFF

60. Integral Calculus.—Prerequisite: course 55. 4 s.h. STAFF

131. Differential Equations.—Prerequisite: course 60. 3 s.h. STAFF

57-58. Physics for Engineers.—10 s.h. DR. MOUZON AND ASSISTANTS

104. Electrical Measurements.—3 s.h. PROFESSOR NIELSEN

### RECOMMENDED ELECTIVE SUBJECTS\*

51-52. Principles of Economics.—6 s.h. STAFF

103. Transportation.—3 s.h. ASSISTANT PROFESSOR LANDON

105. Industrial Management and Business Forecasting.—3 s.h. STAFF

115. Economic Geography.—3 s.h. DR. LEMERT

57-58. First-Year Accounting.—6 s.h. STAFF

137-138. Business Statistics.—6 s.h. DR. NICHOL

181-182. Business Law.—6 s.h. MR. LAYTON

101-102. American Government and Politics.—6 s.h. STAFF

\*\*164. Railroad Legislation in the United States.—3 s.h. PROFESSOR WILSON

\*\*294. Municipal Government and Administration.—3 s.h. PROFESSOR RANKIN

151. Public Speaking.—3 s.h. ASSISTANT PROFESSOR HERRING AND MR. LEWIS

152. Argumentation.—3 s.h. ASSISTANT PROFESSOR HERRING AND MR. LEWIS

53. General Bacteriology.—4 s.h. PROFESSOR WOLF

51. General Geology.—4 s.h. ASSISTANT PROFESSOR BERRY

52. General Geology.—Prerequisite: Geology 51. 4 s.h. ASSISTANT PROFESSOR BERRY

\* Offered in Trinity College.

\*\* Special permission of the instructors must be obtained before registering in courses 164 and 294.

THE GRADUATE SCHOOL  
OF ARTS AND SCIENCES

1938-1939  
ANNOUNCEMENTS FOR 1939-1940

## CALENDAR

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1939

- June 12. Monday, 9:00 A.M.—Registration of students for Summer School, first term.
- June 12. Monday, 2:00 P.M.—Instruction begins for Summer School, first term.
- July 4. Tuesday—Independence Day: a holiday.
- July 21-22. Friday, Saturday—Final examinations for Summer School, first term.
- July 24. Monday, 9:00 A.M.—Registration of students for Summer School, second term.
- July 24. Monday, 2:00 P.M.—Instruction begins for Summer School, second term.
- Sept. 1-2. Friday, Saturday—Final examinations for Summer School, second term.
- Sept. 20. Wednesday, 11:00 A.M.—Formal opening of the College; registration of matriculated students.
- Sept. 21. Thursday—Instruction for Sophomores, Juniors, and Seniors begins.
- Sept. 21-23. Thursday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Friday, 9:15 A.M.-12:45 P.M.; 2:30 P.M.-4:30 P.M.; Saturday, 9:15 A.M.-12:45 P.M.—Registration of graduate students.
- Oct. 16. Monday—Last day for submitting thesis subjects for the degree of Doctor of Philosophy.
- Nov. 6-11. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 1.
- Nov. 13-18. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before November 7.
- Nov. 15. Wednesday—Last day for submitting thesis subjects for the degrees of Master of Arts and Master of Education.
- Nov. 30. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Monday—Duke University Day.
- Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 10-16. Reading period.
- Jan. 17. Wednesday—Mid-year examinations begin.



- Jan. 29-31. Monday, Tuesday, and Wednesday, 9:15 A.M.-12:45 P.M., 2:30 P.M.-4:30 P.M.—Registration for second semester.
- Feb. 1. Thursday—Second semester begins.
- March 1. Friday—Last day for applying for University fellowships, graduate assistantships, and graduate scholarships.
- March 4-9. French examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before February 27.
- March 11-16. German examinations for candidates for graduate degrees. Candidates register in the Graduate Office for these examinations before March 4.
- March 30. Saturday, 1:00 P.M.—Spring vacation begins.
- April 8. Monday, 8:00 A.M.—Instruction is resumed.
- April 26-May 10. Reading period.
- May 1. Wednesday—Last day for submitting theses for degree of Doctor of Philosophy.
- May 15. Wednesday—Last day for submitting theses for degrees of Master of Arts and Master of Education.
- May 17. Friday—Final examinations begin.
- June 1. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.

*Président*

ROBERT LEE FLOWERS, A.M., LL.D.

*Vice-President in the Business Division*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.

*Vice-President in the Educational Division*

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D.

*Dean of the Graduate School of Arts and Sciences*

WALTER HAROLD DELAPLANE, A.B., A.M., Ph.D.

*Assistant to the Dean of the Graduate School*

ROBERT LEE FLOWERS, A.M., LL.D.

*Secretary and Treasurer*

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FRANK CLYDE BROWN, A.B., A.M., Ph.D.

*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.

*Assistant Treasurer*

JOSEPH PENN BREEDLOVE, A.B., A.M.

*Librarian*

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## GRADUATE SCHOOL COUNCIL

WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.

*President of the University, ex officio*

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D.

*Dean of the Graduate School of Arts and Sciences*

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WILLIAM HENRY GLASSON, Ph.B., Ph.D.

PAUL MAGNUS GROSS, B.S., A.M., Ph.D.

GEORGE THOMAS HARGITT, Ph.B., A.M., Ph.D.

WILLIAM THOMAS LAPRADE, A.B., Ph.D.

HELGE LUNDHOLM, Fil. Kand., Fil. Lic., Ph.D.

\*WILLIAM McDOUGALL, B.A., M.A., M.B., D.Sc., Litt.D.

WALTER McKINLEY NIELSEN, B.S., Ph.D.

ARTHUR SPERRY PEARSE, B.S., A.M., Ph.D.

WILLIAM PERLZWEIG, B.S., A.M., Ph.D.

JOSEPH MILLER THOMAS, A.B., Ph.D.

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.

ALBAN GREGORY WIDGERY, B.A., M.A.

\* Deceased, November 28, 1938.

# GRADUATE INSTRUCTION IN DUKE UNIVERSITY

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## ADMISSION

### TO GRADUATE COURSES

A student who has received the A.B. or B.S. degree for a four-year undergraduate course may be admitted to take graduate courses in the Graduate School of Arts and Sciences of Duke University, provided that his undergraduate record gives positive evidence of ability to undertake graduate study successfully. An average grade of not less than "B" is ordinarily accepted as evidence of such ability.

No college or university work taken before the Bachelor's degree is conferred, or fully earned, may be credited toward an advanced degree except under the following circumstances: A student of Duke University who lacks at the beginning of a term not more than nine semester hours of fulfilling the requirements for the Bachelor's degree may obtain permission from the Dean of the Graduate School to take during the term graduate courses sufficient to bring his total work to fifteen hours a week. Such graduate courses will be credited toward the degree of Master of Arts or Master of Education if registered in the Graduate School Office at the beginning of the term and if the student meets the requirements below for formal admission to the Graduate School.

A candidate for admission to graduate courses should ask the proper officer of the college(s) he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record. An advanced student should provide also a transcript of the graduate work he has completed. In no case will a transcript presented by the candidate himself be accepted as a basis for admission, nor will a transcript mailed by any institution be returned to the student. An application blank for admission will be provided upon request to the Dean of the Graduate School. The transcript and application should be submitted to the Graduate School by September 1 for admission in the autumn semester and by January 15 for admission in the spring semester.

### TO THE GRADUATE SCHOOL

After twelve semester hours of graduate work, the student may apply for admission to the Graduate School, and thus become a candidate for the Master's degree. Such admission is dependent upon the fulfillment of two conditions. (1) The student must have made a mark of "G" or "Good" in at least three semester hours of work, with no mark less than "S." Candidates who cannot meet this condition may at a later time submit their records for re-evaluation, provided that in their subsequent work they shall have made a substantial number of "G's." (2) The student in his undergraduate work must have met substantially the requirements for the A.B. or B.S. degree at Duke University. Any deficiencies

of undergraduate work must be satisfied before admission to the Graduate School. Graduate courses taken at Duke University prior to formal admission to the Graduate School will count toward a higher degree provided they are in accord with its requirements and are acceptable to the major department.

### REGISTRATION

A student who is admitted to graduate courses will receive a permit to register, which he should present when he registers for courses. If he expects to work toward an advanced degree, he must consult with the Director of Graduate Studies or his representative in the department in which he proposes to major before registering his courses in the Graduate School Office. This can be done during the registration period in September and January. The department concerned will determine whether a student is prepared to take any particular course. In all cases the student must make up without credit toward a graduate degree all prerequisites required by the major department of candidates for advanced degrees. Students who have fulfilled the minimum residence requirements for the doctorate but who are continuing resident study at Duke University for the degree should register in the Graduate School Office, even though there may be no fees to be charged.

New students are advised to arrive early during the registration period in order to formulate their programs. Anyone registering for courses after the close of the regular registration period will be charged a late registration fee of five dollars.

### FELLOWSHIPS, SCHOLARSHIPS, AND ASSISTANTSHIPS

For the the assistance and encouragement of graduate students of high character and marked ability, the University has established a considerable number of fellowships and scholarships. Holders of fellowships and scholarships will be expected to pay the tuition fee and such additional fees as are regularly required. Applications for these appointments should be made on or before March 1 of each year. In case vacancies occur, applications submitted on a later date will be considered. Appointments which were offered for the year 1939-40 are listed below.

#### FELLOWSHIPS

One Angier Duke Memorial Fellowship of one thousand dollars.  
Four University Fellowships of seven hundred and fifty dollars each.  
Ten University Fellowships of seven hundred dollars each.  
Sixteen University Fellowships of six hundred and fifty dollars each.  
One Gurney Harriss Kearns Fellowship in American Religious Thought of seven hundred dollars.

In appointing fellows, preference is usually given to applicants who have completed at least one year of successful graduate work. Fellows will be required to give a limited amount of assistance in reading papers, in laboratories, or in other departmental duties. All fellows carry a full program of graduate work.

### GRADUATE SCHOLARSHIPS

Seven Graduate Scholarships of four hundred and fifty dollars each.

Twelve Graduate Scholarships of four hundred dollars each.

Scholars may be asked to give a limited amount of assistance in departmental work. They normally carry a full program of graduate studies.

### FELLOWSHIPS AND GRADUATE SCHOLARSHIPS IN FORESTRY

Information regarding special fellowships and graduate scholarships in forestry may be obtained before March 1, 1940, from the Dean of the School of Forestry, Duke University, Durham, N. C.

### BROOKINGS-DUKE CO-OPERATIVE FELLOWSHIPS

Duke University and the Brookings Institution of Washington, D. C., have entered into a co-operative arrangement for the establishment of fellowships in economics and political science. Each fellowship will be of the approximate annual value of one thousand dollars. The fellowships will be available to third-year or more advanced graduate students, who have either completed the work for the Ph.D. degree, or who wish to do thesis work in Washington. In carrying on their work, students will use the facilities of the Brookings Institution. In most cases unmarried persons will be nominated for these appointments. Further details can be obtained from the Dean of the Graduate School, Duke University, or from the Brookings Institution, Washington, D. C. Graduate students who desire to be nominated by Duke should apply to the departments concerned not later than March 1. Nominations are transmitted to the Brookings Institution by March 15.

### APPOINTMENTS AS GRADUATE ASSISTANTS

A considerable number of appointments as teaching assistants or readers will be available for graduate students. The compensation will usually range from \$300 to \$700, depending upon the nature and amount of the work assigned. Assistants receiving \$500 or more will be registered for four-fifths of a normal program of studies.

Information regarding fellowships, graduate scholarships, and graduate assistantships, together with application blanks, may be obtained from the Dean of the Graduate School, Duke University, Durham, North Carolina.

### ADVANCED DEGREES

The degrees offered in the Graduate School of Arts and Sciences are Master of Arts (A.M.), Master of Education (M.Ed.), and Doctor of Philosophy (Ph.D.). Most departments of the University are now prepared to give a full program of work leading to the degree of Doctor of Philosophy.

### THE LIBRARY

The total number of volumes in the University Library on June 30, 1938, was 529,060 volumes. These are distributed among four main units:



the General Library with 398,307 volumes; the Hospital (Medical) Library, 35,159 volumes; the Library of the Law School, 57,786 volumes; and the Woman's College Library, 37,808 volumes.

The work of students in the Graduate School is carried on primarily in the General Library. A Graduate Reading Room, which contains the reference material most in demand, provides a quiet and convenient place for study. Graduate students are also admitted freely to the stacks. Within the stacks are located 108 carrells or desks which are assigned on an annual basis, preference being given to students in the Graduate School. To facilitate work in the natural sciences, the General Library maintains departmental libraries adjacent to laboratories for the Departments of Chemistry, Physics, and Biology. A departmental library is also maintained for the School of Religion.

In the field of mathematics and the sciences particular attention has been given to securing files of important journals and serials. A check-list of all scientific periodicals and serials on the University campus shows a total of approximately 2,650 files in a more or less complete form. The total number of current periodicals received by subscription, exchange and gift in 1937-38 was 2,874, exclusive of duplicates.

In the field of the social sciences and the humanities every effort has been made to secure the basic collections of source material as well as the more important publications of criticism and discussion. This has been done by the acquisition of such sets as the *Die Griechischen Christlichen Schriftsteller der ersten drei Jahrhunderte*, *Corpus Scriptorum Ecclesiasticorum Latinorum*, Migne's *Patrologia*, the *Corpus Scriptorum Historia Byzantiae*, the *Monumenta Historica Germaniae*, the *Acta Sanctorum*, the *Corpus Reformatorum*, complete files of the publications of the League of Nations, the International Labor Office, and many others. The endeavor to select the more important items in the various fields of graduate work has been supplemented by the purchase of a number of special collections and libraries. Among the more important of these might be mentioned a Peruvian library of approximately three thousand books and manuscripts; a library of several thousand volumes dealing with Brazil; the Lanson Collection of French literature consisting of twelve thousand books and monographs; a Goethe collection of one thousand volumes; a Scandinavian collection of three thousand volumes; a collection of about five thousand items of early Americana, dating from the seventeenth century to 1820; the Holl church history library dealing primarily with the period of the Reformation; a collection of many thousands of church minutes and records of American denominational history; two collections of eighteenth-century English poetry and prose totaling about five thousand items; two special collections, one dealing primarily with Byron and the other with Coleridge, containing a number of manuscripts, annotated copies, and first editions; a transportation collection containing many thousand railroad reports and records; and the Thomas Collection of books on Chinese history and culture. Special mention should be made of the George Washington Flowers Collection of manuscripts, books, newspapers, and pamphlets dealing with all phases of Southern history.



## PUBLIC DOCUMENTS

The importance of public documents as fundamental source materials for the social sciences and as containing also some of the most important work in the field of applied science is being clearly recognized, and an excellent start has been made toward a comprehensive collection of this material. The Library has been a depository for Federal documents since 1890. State documentary publications are also being systematically collected. Of European public documents a representative, though not extensive, collection has been secured. Among the more notable items might be mentioned the *British Calendar of State Papers*, the *Acts of the Privy Council*, *Hansard's Debates*, the *Débats Parlementaires* of the French Senate and Chamber of Deputies, the *Journal Officiel de la République Française*, the *Bulletin des Lois de la République Française*, the *Verhandlungen des Reichstages*, and the *Diario* of the Spanish *Cortes*. The public documents of the Latin-American countries form one of the strongest units of the Library.

Under this heading should be mentioned also the recent acquisition of the library of Professor Louis Strisower, sometime president of the Institut de Droit International, which contains approximately five thousand volumes dealing with international law. The volumes date from the seventeenth century to the present and contain some especially valuable periodical files and rare books.

## PUBLICATIONS OF EUROPEAN ACADEMIES

The Duke University Library has more than twenty-five sets of European academies containing monographs in most of the fields of knowledge and constituting important sources for the research programs of graduate students and Faculty. The sets comprise about two thousand volumes and include *Preussische Akademie der Wissenschaften* (Berlin); *Gesellschaft der Wissenschaften zu Göttingen*; *Sächsische Akademie der Wissenschaften* (Leipzig); *Bayerische Akademie der Wissenschaften* (Munich); *Akademie der Wissenschaften* (Vienna); *Académie des sciences* (Paris); *Académie des inscriptions et belles-lettres* (Paris); *Institut de France* (Paris); *Académie des sciences morales et politiques* (Paris); *Accademia gioenia di scienza naturali* (Catania); *Accademia virgiliana de scienze, lettere ed arti di Mantova*; *Accademia de scienze morali e politici* (Naples); *Accademia dei lincei* (Rome); *Accademia nazionale dei lincei*; *Accademia d'Italia* (Rome); *Accademia pontificia dei nuova lincei* (Rome); *Academia de ciencias y artes* (Barcelona); *Academia de ciencias, bellas letras y nobles artes de Córdoba*; *Real academia española*; *Academia de la historia* (Madrid); *Academia das sciencias de Lisboa*; *Akademia nauk* (Leningrad); *Akademia nauk* (Moscow); *Danske videnskabernes selskab* (Copenhagen); *Norske videnskaps-akademi i Oslo*; *Akademie van Wetenschappen* (Amsterdam); *Académie royale des sciences, des lettres et des beaux-arts de Belgique* (Brussels); *Akademiya umiejtnosci* (Krakow).

## NEWSPAPERS

The Library collection of newspapers contains around eleven thousand volumes. Practically all states of the Union are represented, although the major part of the collection is from along the Atlantic seaboard. Of the eighteenth-century items, the states best represented are Massachusetts, Maryland, New York, Rhode Island, Virginia, North Carolina, South Carolina, and Georgia. There is an excellent collection of nineteenth-century New England papers. There are especially long runs of the *New York Herald*, *New York Times*, *New York Tribune*, and the *London Times*. The World War period is unusually strong with about twenty-eight titles practically complete for 1914-19. There is a group of papers from Germany in the years just after the World War. Special emphasis has been placed on the Southern states, and there are numerous volumes of papers from North Carolina, South Carolina, and Virginia, representing the Colonial period, the Ante-Bellum period, and the Civil War period. The current subscription list of seventy-nine titles represents American public opinion and contains about twenty important foreign titles.

## MANUSCRIPTS

The manuscript collection now contains approximately half a million pieces. Outstanding items include one notable Greek manuscript of the thirteenth century containing the entire New Testament. In the field of English literature there is an interesting body of Rossetti material. For the most part, however, the collection relates to the South Atlantic region. The field of American literature is represented by the papers of Paul Hamilton Hayne, Thomas Holley Chivers, William Gilmore Simms, John Esten Cooke, George Frederick Holmes, and Thomas Nelson Page. Material is most copious in the field of history, where the papers of both well-known and minor figures provide a well-rounded picture of life in the South during the nineteenth century. Aside from politics, information can be found on all phases of social and economic life. Particular attention is given to the period of the Civil War, with the result that the collection is rich in material on civic and social as well as military phases of that conflict. Of interest for historical studies are the papers of P. G. T. Beauregard, John C. Calhoun, John J. Crittenden, John Clopton, William H. Crawford, Jefferson Davis, James Mercer Garnett, Nathaniel Greene, Louis M. Goldsborough, David B. Harris, William W. Holden, T. J. (Stonewall) Jackson, John M. Kell, Robert E. Lee, Francis R. Lassiter, George McDuffie, A. T. Mahan, Willie P. Mangum, Matthew Fontaine Maury, Francis W. Pickens, Richard Singleton, and Alexander H. Stephens. The manuscript collection is increasing at the rate of about fifty thousand items annually.

EXCHANGE PRIVILEGES WITH THE LIBRARY OF THE UNIVERSITY  
OF NORTH CAROLINA

The libraries of Duke University and of the University of North Carolina have completed arrangements for the fullest exchange of priv-

ileges and resources. Each library contains a catalogue of the contents of the other, and books requested from the other library are supplied through a delivery service which operates daily except Saturdays and Sundays. Faculty members and graduate students may secure cards admitting them to the stacks of the other library. The Library of the University of North Carolina contains approximately 360,000 volumes, besides a large collection of manuscripts relating to Southern history. Through this arrangement more than 889,000 volumes are available to students in the combined libraries.

## SCIENCE LABORATORIES

### BIOLOGICAL LABORATORIES

The Biology Building on the West Campus contains three refrigerated rooms, an incineration room, a workshop, an aquarium room, seven animal rooms connected with outside yards, and eight dark rooms. Special laboratories are provided for advanced work in plant and animal physiology, parasitology, cytology, taxonomy, bacteriology, ecology, histology, mycology, anatomy, embryology, endocrinology, entomology, forest soils, and wood anatomy and properties. A 300-acre arboretum is being developed adjacent to the campus with Dr. E. S. Harrar in charge of its development. A greenhouse gives adequate space for experimental work and propagation. There is an herbarium of some fifty thousand specimens of all plant groups with a large representation of the Southern flora. Dr. H. J. Oosting is Curator of the Herbarium, and Dr. Irving E. Gray is the Curator of the Zoological Museum. On the East Campus, laboratories are provided for undergraduate women, and there is a small greenhouse near the Science Building. Laboratories and rooms for students doing research are equipped with vacuum, compressed air, direct and alternating current, gas, and running water. Proper equipment and supplies for biological work are available.

The Duke Forest and its streams provide excellent collecting grounds. The Duke Forest is under the management of the School of Forestry. Duke University is situated in the Piedmont region, between the mountains and the coastal plains. This gives easy access to a variety of plants and animals. North Carolina is the home of the tulip poplar, holly, rhododendron, mountain laurel, flowering dogwood, several species of insect-catching plants, cypress, and other interesting plants. Among the animals are a varied assortment which range from marine to montaine species. In the woods about the University there is a great variety of animal forms.

The Marine Laboratory at Beaufort, N. C., provides facilities for work on plants and animals in and near the ocean. It is situated on Piver's Island, adjacent to the Biological Laboratory of the United States Bureau of Fisheries.

### PHYSICAL LABORATORIES

The physical laboratory contains approximately an acre of floor space which is devoted to instruction and research. In addition to the

usual lecture and elementary laboratory facilities, laboratories are provided for work in electrical measurements, optics, atomic physics, and advanced measurements in general physics.

Rooms are provided for various instruments of research in spectroscopy, such as a 10-foot concave grating which is used in conjunction with a 32-meter-long stainless steel pipe for study of weak absorption; a vacuum spectrograph with a 2-meter glass grating; an apparatus for the study of the Raman spectra of gases photographed with a large 3-prism glass f 2.5 glass Zeiss spectrograph and various other spectroscopic instruments, such as the Hilger E-1, Moll microphotometer, etc.

A transformer high-voltage outfit generating voltages up to 500 KV makes possible the study of a number of problems in nuclear physics. Research facilities, such as counters, cloud chambers and ionization chambers, are available for the study of the properties of extremely high energy particles such as those present in the cosmic radiation.

A well-equipped shop operated by a trained instrument maker makes possible the development of instructional and research apparatus. A shop is also provided for the use of the Staff and graduate students.

#### CHEMISTRY LABORATORIES

Graduate work in chemistry is carried on in a new building which has a floor area of about 57,000 square feet. The equipment of this building is modern in every respect. Of this total space a large proportion is available for research and advanced teaching. There are twenty-five double research rooms completely equipped with the usual services. In addition, the following specially designed rooms are available for present or future research as indicated: a low temperature room, photographic room, constant temperature room, gas analysis room, combustion room, bomb room, animal room, and rooms equipped for high vacuum, X-ray, and photochemical investigations.

A glass-blowing room and a well-equipped shop, operated by a competent mechanic, provide facilities for the construction of special apparatus and for the repair and maintenance of instruments.

#### MEDICAL SCHOOL

In the School of Medicine elaborate facilities are provided for post-graduate research in the various branches of medical science. Especial attention is given to training in preventive medicine and public health work. Graduate students in the Graduate School of Arts and Sciences taking work in Anatomy, Bacteriology, Immunology, Biochemistry, Physiology, and Pharmacology will find complete laboratory equipment and medical library in the Medical School Building.

#### THE DUKE FOREST

Through placing the Duke Forest under intensive management for forestry purposes, substantial progress has been made in developing the educational work and research in forestry. The Duke Forest consists of



approximately five thousand acres of land, most of which is adjacent and easily accessible to the University campus. Situated in the lower Piedmont region, composed of second-growth shortleaf pine, loblolly pine, and hardwoods, the Forest is representative of the various types of timber growth and soils found throughout the region.

Owing to the proximity of the Forest to the laboratories, greenhouses, and library facilities of the University, an excellent opportunity exists for advanced study and research in forestry. Research, particularly in the fields of silvics, forest soils, silviculture, forest management, properties of wood, forest-tree physiology, and forest pathology, is well under way. Several members of the Botany and Zoology Staffs are also engaged on research in the Duke Forest.

For additional information, see the *Bulletin of the School of Forestry*.

### ENCOURAGEMENT OF RESEARCH

The President of the University appoints annually a University Council on Research. The twelve members of this Council are chosen from the Faculties of the Schools of Medicine, Law, and Religion, and the Graduate School of Arts and Sciences. In May of each year the Council on Research receives written applications from members of the Faculty for subsidies to be used in the following fiscal year to aid them in carrying out research projects. Stipends are granted for the employment of research assistants, for the purchase of books and for apparatus, supplies, and equipment. Each member of the Faculty to whom a research stipend is granted must make a written report within twelve months to the Council concerning the progress of the investigation for which the stipend was allowed.

### THE UNIVERSITY PRESS

As far back as 1897 Trinity College began sponsoring the publication of the *Papers of the Trinity College Historical Society*, which were distributed to members of the Society and on exchange with other institutions. This was the first publishing venture of the College.

In 1902, the 9019, an honor scholastic society on the campus, sponsored the launching of *The South Atlantic Quarterly*, which was later taken over by the Press.

In 1925 after the acceptance of the indenture of trust of James B. Duke, Trinity College became Duke University, and the following year the University Press was organized to publish the results of research engaged in by the Faculty and such other works as were approved by a board of editors appointed for the purpose. One of the first steps of the new organization was to revive *The Hispanic American Historical Review*, which had been founded and published from 1918 to 1922 by a group of scholars interested in Hispanic America. Since 1926 its publication has been continued without interruption and its mission has been supplemented by the publication of many studies dealing with the history, politics, and foreign relations of the Hispanic nations of the New World.

In 1929 *American Literature* was begun with the co-operation of the American Literature Group of the Modern Language Association. This journal was followed in 1931 by *Ecological Monographs*, a quarterly sponsored by the Ecological Society of America to take care of papers too long for inclusion in *Ecology*.

*Character and Personality* was organized in 1932 to offer a medium for the publication of studies in fields related to this phase of psychology. It is an international quarterly which appears simultaneously in the United States and Great Britain. A German edition formerly published in Germany has been forced to suspend publication.

Besides these regular quarterly publications the Press has issued *Duke University Psychological Monographs*, the title of which has recently (1936) been changed to *Contributions to Psychology Theory*, and *Duke University Research Studies in Education* sponsored by the Department of Education of the University.

In 1935 the Press started the publication of the *Duke Mathematical Journal*, with the co-operation of the Mathematical Association of America, and *The Journal of Parapsychology* (1937) for the publication of the results of research in psychoanalysis, mental telepathy, and allied studies. For the Southern Association of Colleges and Secondary Schools, the Press publishes *The Southern Association Quarterly*, official organ of the Association. The Law School issues another quarterly, *Law and Contemporary Problems*, carrying a symposium of some important legal problem in each number.

Previous to the existence of the Press, Duke University, formerly Trinity College, had published several important books under its own imprint. Since the organization of the Press it has continued to offer to the public the products of able scholarly research. It has not limited its scope to any one field or to any one group of authors. In addition to the many works submitted by members of the Faculty, a great number of manuscripts by authors who had no connection with the University have been issued under the imprint of the Press.

In the broadest sense, it is the policy of the Press to give to the public any work which, because of the merit of its contents, its style, and its general value, deserves publication.



## COURSES OF INSTRUCTION

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*This is a condensed description of courses. For a full description, see Bulletin of the Graduate School.*

*Certain undergraduate courses are open to graduate students with the approval of the department. See the Bulletin of Undergraduate Instruction.*

### DIVISION OF ANCIENT LANGUAGES AND LITERATURES

PROFESSOR BRANSCOMB, CHAIRMAN; PROFESSORS PEPPLER, ROGERS, AND  
ROSBOROUGH; ASSISTANT PROFESSORS CLARK, GATES, STINE-  
SPRING, AND WAY; DR. TRUESDALE

#### GREEK

##### FOR SENIORS AND GRADUATES

- 201-202. Greek Tragedy.—6 s.h.  
PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY
- 203-204. Homer.—*Odyssey*. Pindar and Bacchylides. 6 s.h.  
DR. TRUESDALE
- 205-206. Greek Historians.—6 s.h. PROFESSOR PEPPLER
- 207-208. Greek Orators.—6 s.h. ASSISTANT PROFESSOR WAY
- 209-210. Plato.—*Symposium*, *Protagoras*, and parts of the *Republic*. 6 s.h.  
ASSISTANT PROFESSOR WAY
- 211-212. Aristophanes.—6 s.h. PROFESSOR PEPPLER  
(Only one of the six courses listed above is offered each year.)
243. Athenian Topography.—3 s.h. ASSISTANT PROFESSOR WAY
244. Greek Epigraphy.—3 s.h. ASSISTANT PROFESSOR WAY
245. Greek Dialects.—3 s.h. ASSISTANT PROFESSOR WAY
246. Greek Historical Inscriptions.—3 s.h. ASSISTANT PROFESSOR WAY
- 247-248. Greek Archaeology.—6 s.h. ASSISTANT PROFESSOR WAY  
(Of the courses numbered from 243 to 248, only two semester-courses are offered each year.)

##### FOR GRADUATES

The more advanced work of the graduate department is done in the seminar. One author or group of authors forms the center of study each year. Seminars are offered in Aristophanes (course 301-302), the Greek Historians (303-304), the Attic Orators (305-306), and the Greek Tragic Poets (307-308). These run through a cycle of four years. In 1939-40 the work will be:

- 303-304. Seminar in the Greek Historians.—6 s.h. PROFESSOR PEPPLER

## RELATED COURSES IN OTHER DEPARTMENTS

- Phil. 217. Philosophy of Aristotle.—3 s.h. DR. McLARTY
- N.T. 218. Galatians and I Corinthians.—3 s.h.  
PROFESSOR BRANSCOMB OR ASSISTANT PROFESSOR CLARK
- N.T. 315. Hellenistic Religions at the Beginning of the Christian Era.—  
3 s.h. ASSISTANT PROFESSOR CLARK
- N.T. 318. The Text of the New Testament.—3 s.h.  
ASSISTANT PROFESSOR CLARK
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By a co-operative arrangement graduate students of Duke University may take the following courses at the University of North Carolina with the approval of the Dean of the Graduate School and the Head of the Greek Department at Duke:

Homer.	PROFESSOR EPPS
Greek Tragedy.	PROFESSOR EPPS
Greek Comedy.	PROFESSOR EPPS
The Greek New Testament.	PROFESSOR EPPS
Greek Historians.	PROFESSOR HARLAND
Hellenic Literature and Its Historical Setting.	PROFESSOR HARLAND
Greek Seminar.	PROFESSORS HARLAND, EPPS, AND SANDERS
The Aegean Civilization.	PROFESSOR HARLAND
Topography of Athens, Olympia, and Delphi.	PROFESSOR HARLAND
Archaeology of the Ancient Near East.	PROFESSOR HARLAND
Hellenic Architecture.	PROFESSOR HARLAND
Hellenic Sculpture.	PROFESSOR HARLAND
Greek Epigraphy.	PROFESSOR HARLAND

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*Graduate students of Duke University may attend the American School of Classical Studies in Athens, Greece, without charge for tuition, and they are eligible to compete for the fellowships that are offered annually by the School. These consist of two fellowships in Greek archaeology and one in the language, literature, and history of ancient Greece, each with a stipend of \$1,300. They are awarded mainly on the basis of examinations held in the beginning of February of each year.*

## LATIN AND ROMAN STUDIES

All candidates for the degree of Master of Arts are required to complete one Latin seminar of six semester hours, and candidates for the doctorate are required to complete not less than two additional seminars of six semester hours each for a major in Latin and Roman Studies. At present Greek, French, Philosophy, and English are the most suitable subjects for the minor for students who desire a Latin major. A satisfactory working knowledge of both German and French is a necessity for graduate students in Classics, and Italian is desirable. Courses marked "U.N.C." are given at the University of North Carolina and are, under a co-operative agreement, open to graduate students and Seniors of Duke University upon approval by the Dean of the Graduate School and the Head of the Department of Latin and Roman Studies.

*N.B. All students desirous of pursuing any of the courses here listed are expected to attend the meeting of Staff and students at 3:00 P.M. in 207 Carr Building on the day before final registration day to get their courses arranged and scheduled.*

## FOR SENIORS AND GRADUATES

201. Roman Fiction.  
[Not offered in 1939-40]

202. Latin Christian Writers.  
[Not offered in 1939-40]

203-204. Roman Epic Poetry.—6 s.h. ASSISTANT PROFESSOR GATES

205-206. Roman Drama.  
[Not offered in 1939-40]

Roman Dramatic Literature. PROFESSOR HARRER (U.N.C.)

207-208. Roman Philosophy.—6 s.h. PROFESSOR ROSBOROUGH

209-210. Vulgar Latin: Introduction to Romance Philology.—6 s.h.  
PROFESSOR ROSBOROUGH

211-212. Roman Oratory.—6 s.h. PROFESSOR ROGERS

215. Introduction to Roman Art and Archaeology.  
[Not offered in 1939-40]

216. Topography and Monuments of Ancient Rome.—*May be offered the first semester in 1939-40.* 3 s.h. PROFESSOR ROSBOROUGH

251-252. Roman Life.  
[Not offered in 1939-40]

281-282. Roman Historical Literature.  
[Not offered in 1939-40]

Roman Historical Literature. PROFESSOR HARRER (U.N.C.)  
Prose Writings of the Republic. PROFESSOR SANDERS (U.N.C.)

Mediaeval Latin. PROFESSOR JOHNSON (U.N.C.)

The Satires of Juvenal. PROFESSOR SANDERS (U.N.C.)

## FOR GRADUATES

311-312. Latin Epigraphy.  
[Not offered in 1939-40]

Latin Epigraphy. PROFESSOR HARRER (U.N.C.)

Cicero: Political Career and Works. PROFESSOR HARRER (U.N.C.)

375-376. Greek and Latin Linguistics.  
[Not offered in 1939-40]

Comparative Grammar of Greek and Latin. PROFESSOR LANE (U.N.C.)

Latin Palaeography. PROFESSOR HARRER (U.N.C.)

Seminars: Various authors are selected from year to year as a basis for training in criticism and research. Seminars are offered in the following: *Catullus* (301-302), *Roman Historians* (331-332), *Cicero* (391-392), *Martial* (351-352), *Horace* (361-362), *Roman Provincial Administration* (341-342), and *The Reign of Tiberius* (343-344). The seminars planned for 1939-40 are:

- 343-344. *The Reign of Tiberius*.—6 s.h. PROFESSOR ROGERS  
 351-352. *Martial's Epigrams*.—6 s.h. PROFESSOR ROSEBOROUGH  
*Latin Seminar*. PROFESSORS HARRER, JOHNSON, SANDERS (U.N.C.)

## SANSKRIT

FOR SENIORS AND GRADUATES

- Elementary Sanskrit*. PROFESSOR LANE (U.N.C.)

## SEMITICS

FOR SENIORS AND GRADUATES

- O.T. 201-202. *Elementary Hebrew*.—6 s.h.  
 ASSISTANT PROFESSOR STINESPRING  
 O.T. 304. *Aramaic*.—3 s.h. ASSISTANT PROFESSOR STINESPRING  
 O.T. 305-306. *Elementary Arabic*.—6 s.h.  
 [Not offered in 1939-40] ASSISTANT PROFESSOR STINESPRING  
 O.T. 307-308. *Advanced Hebrew*.—6 s.h.  
 [Not offered in 1939-40] ASSISTANT PROFESSOR STINESPRING  
 O.T. 309. *History of the Ancient Near East*.—3 s.h.  
 ASSISTANT PROFESSOR STINESPRING  
 N.T. 316. *Judaism at the Beginning of the Christian Era*.—3 s.h.  
 [Not offered in 1939-40] PROFESSOR BRANSCOMB

## BOTANY

PROFESSOR BLOMQUIST, CHAIRMAN; PROFESSOR WOLF, DIRECTOR OF GRADUATE STUDIES; ASSOCIATE PROFESSORS HARRAR, KRAMER; ASSISTANT PROFESSORS ADDOMS, OOSTING, PERRY; DR. ANDERSON

FOR SENIORS AND GRADUATES

202. *Genetics*.—Prerequisites: one year of botany, zoology or equivalent, and college algebra. 4 s.h. ASSISTANT PROFESSOR PERRY  
 203. *Plant Cytology*.—Prerequisite: two years of botany. 4 s.h.  
 [Not offered in 1939-40] DR. ANDERSON  
 204. *Advanced Plant Anatomy*.—Prerequisite: Botany 55 or equivalent. 4 s.h. ASSISTANT PROFESSOR ADDOMS  
 216. *Botanical Microtechnique*.—Prerequisite: three semesters of botany. 4 s.h. DR. ANDERSON  
 221. *Structure and Classification of Fungi*.—Prerequisite: two years of botany. 4 s.h. PROFESSOR WOLF  
 225-226. *Special Problems*.—Credits to be arranged.  
 (a) *Bacteriology, Mycology, and Plant Pathology*. PROFESSOR WOLF  
 (b) *Cytology*. DR. ANDERSON  
 (c) *Ecology*. ASSISTANT PROFESSOR OOSTING  
 (d) *Genetics*. ASSISTANT PROFESSOR PERRY  
 (e) *Morphology and Anatomy of Higher Groups*.  
 ASSOCIATE PROFESSOR HARRAR, ASSISTANT PROFESSORS ADDOMS AND OOSTING

(f) Morphology and Taxonomy of Lower Groups.

PROFESSOR BLOMQUIST AND DR. ANDERSON

(g) Physiology.

ASSOCIATE PROFESSOR KRAMER AND

ASSISTANT PROFESSOR ADDOMS

(h) Plant Microchemistry.

ASSISTANT PROFESSOR ADDOMS

(i) Taxonomy of Higher Groups.

PROFESSOR BLOMQUIST

252. **Advanced Plant Physiology.**—Prerequisite: Botany 151 or equivalent; organic chemistry recommended. 4 s.h.

ASSOCIATE PROFESSOR KRAMER

255. **Advanced Taxonomy.**—Prerequisite: two years of botany, including Botany 52 or equivalent. 4 s.h.

PROFESSOR BLOMQUIST

[Not offered in 1939-40]

256. **Field Ecology.**—Prerequisites: Botany 1, 2, and 52, or equivalent. 4 s.h.

ASSISTANT PROFESSOR OOSTING

#### FOR GRADUATES

305. **Plant Geography.**—Prerequisite: Botany 156 or equivalent. 4 s.h.

[Not offered in 1939-40]

ASSISTANT PROFESSOR OOSTING

310. **Structure and Classification of Bryophytes and Pteridophytes.**—Prerequisite: two years of botany. 4 s.h.

PROFESSOR BLOMQUIST

311. **Structure and Classification of Algae.**—Prerequisite: two years of botany. 4 s.h.

PROFESSOR BLOMQUIST

341. **Methods in Plant Physiology.**—4 s.h.

ASSOCIATE PROFESSOR KRAMER

342. **Plant Microchemistry.**—2 s.h.

ASSISTANT PROFESSOR ADDOMS

359-360. **Research in Botany.**—Credits to be arranged.

STAFF

397-398. **General Botanical Seminar.**—1 s.h. each semester.

STAFF

#### FOREST BOTANY

##### FOR SENIORS AND GRADUATES

224. **Forest Pathology.**—Prerequisites: Botany 1, 2. 4 s.h.

PROFESSOR WOLF

253. **Dendrology.**—Prerequisite: two years of botany. 4 s.h.

ASSOCIATE PROFESSOR HARRAR

#### RELATED COURSES IN OTHER DEPARTMENTS

These related courses may be counted toward a major in Botany:

**Zoology 341. Historical and Philosophical Zoology.**—2 s.h.

[Not offered in 1939-40]

PROFESSOR HARGITT

**Forestry 257. Design of Forestry Experiments and Analysis of Data.**—5 s.h.

PROFESSOR SCHUMACHER

#### CHEMISTRY

PROFESSOR GROSS, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS LONDON, VOSBURGH AND WILSON; ASSOCIATE PROFESSOR BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs. BRADSHAW, BROWN, HILL, AND HOBBS

##### FOR SENIORS AND GRADUATES

215-216. **Advanced Inorganic Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Chemistry 261-262, Physics 59-60 or 213-214 and ability to read German are desirable. 6 s.h.

PROFESSOR VOSBURGH AND DR. HILL

[Not offered in 1939-40]



231-232. **Advanced Quantitative Analysis.**—Prerequisites: Chemistry 70 and Physics 51-52 or equivalent. 6 s.h.

PROFESSOR VOSBURGH, ASSOCIATE PROFESSOR BIGELOW,  
ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

241. **Physiological Chemistry.**—Prerequisites: Chemistry 70 and 151-152. Course 261-262 is desirable though not required. 4 s.h.

PROFESSOR WILSON

242. **Metabolism.**—Two lectures, credit 2 s.h., and 6 laboratory hours, credit 2 s.h. 4 s.h.

PROFESSOR WILSON

253-254. **Advanced Organic Chemistry.**—Prerequisites: Chemistry 151-152 or equivalent and a reading knowledge of German. 8 s.h.

ASSOCIATE PROFESSOR BIGELOW, ASSISTANT  
PROFESSOR HAUSER, AND DR. BROWN

261-262. **Physical Chemistry.**—Prerequisites: Chemistry 70, 151-152, Physics 1-2 or equivalent and Mathematics 7-8 or equivalent. Calculus is desirable but is not required. Undergraduates are admitted to this course only by permission of the Director of Undergraduate Studies. 6 s.h.

PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS

271. **Introduction to Research.**—1 s.h.

PROFESSORS GROSS AND VOSBURGH, AND ASSOCIATE PROFESSOR BIGELOW

273-274. **Seminar.**—2 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSOCIATE PROFESSOR BIGELOW;  
ASSISTANT PROFESSORS HAUSER AND SAYLOR; DRs.  
BRADSHER, BROWN, HILL, AND HOBBS

275-276. **Research.**—3 or 6 s.h.

PROFESSORS GROSS, VOSBURGH, AND WILSON; ASSOCIATE PROFESSOR  
BIGELOW; ASSISTANT PROFESSORS HAUSER AND SAYLOR;  
DRs. BRADSHER, BROWN, HILL, AND HOBBS

#### FOR GRADUATES

303. **Thermodynamics.**—3 s.h.

PROFESSORS GROSS AND SPONER

[Not offered in 1939-40]

304. **Chemical Thermodynamics.**—3 s.h.

[Not offered in 1939-40]

PROFESSORS GROSS AND VOSBURGH

351-352. **Advanced Synthetic Organic Chemistry.**—2 s.h.

ASSOCIATE PROFESSOR BIGELOW

363-364. **Advanced Physical Chemistry.**—Prerequisites: Chemistry 261-262 or its equivalent and calculus. 6 s.h.

PROFESSORS GROSS AND VOSBURGH; ASSISTANT  
PROFESSOR SAYLOR; DRs. HILL AND HOBBS

365. **Seminar in Advanced Theoretical Chemistry.**—2 s.h.

PROFESSOR LONDON

#### RELATED COURSES IN OTHER DEPARTMENTS

##### BIOCHEMISTRY

M241. **General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. 6 s.h. DRs. PERLZWEIG AND TAYLOR, AND STAFF

M242. **Biochemical Preparations.**—Prerequisite: Biochemistry M241. 2 s.h. DR. TAYLOR AND STAFF



M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry. DR. NEURATH

M341. Pathological Chemistry.—Prerequisites: Biochemistry M241 and Physiology M261-2. DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

## BOTANY

342. Plant Microchemistry.—2 s.h. ASSISTANT PROFESSOR ADDOMS

## PHYSICS

323. Theory of Atomic Spectra.—3 s.h. PROFESSOR SPONER

324. Theory of Molecular Spectra.—3 s.h. PROFESSOR SPONER

## ECONOMICS AND BUSINESS ADMINISTRATION

PROFESSOR GLASSON, CHAIRMAN; PROFESSOR HOOVER, DIRECTOR OF GRADUATE STUDIES; PROFESSORS HAMILTON, SPENGLER, AND VON BECKERATH;  
ASSOCIATE PROFESSOR DE VYVER; ASSISTANT PROFESSORS BLACK,  
EITEMAN, RATCHFORD, AND SPRINGER

## FOR SENIORS AND GRADUATES

203-204. Money, Banking, and Credit.—6 s.h. PROFESSOR GLASSON

217. Business Cycles.—3 s.h. PROFESSOR SPENGLER

218. Population Problems and the Standard of Living.—3 s.h.  
PROFESSOR SPENGLER

230. Public Debts in the United States.—3 s.h.  
ASSISTANT PROFESSOR RATCHFORD

231. The Economic History of Modern Europe.—3 s.h.  
PROFESSOR HAMILTON

232. The Economic History of the United States.—3 s.h.  
PROFESSOR HAMILTON

233. State and Local Finance.—Prerequisite: Economics 187 or equivalent.  
3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR RATCHFORD

234. Federal Finance.—Prerequisite: Economics 187 or equivalent. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR RATCHFORD

237-238. Statistical Methods.—Prerequisite: Business Statistics 138 or  
consent of the instructor. 6 s.h. ASSISTANT PROFESSOR SPRINGER

239. Prices.—3 s.h. PROFESSOR HAMILTON

241-242. Value and Distribution.—6 s.h. PROFESSOR SPENGLER

245-246. Problems of Modern Industrialism.—6 s.h.  
PROFESSOR VON BECKERATH

253. Labor Problems.—3 s.h. ASSOCIATE PROFESSOR DE VYVER

256. **Labor Problems.**—Prerequisite: Economics 51-52; Economics 253, or with the consent of the instructor. 3 s.h.

ASSOCIATE PROFESSOR DE VYVER

260. **Social Insurance.**—3 s.h.  
[Not offered in 1939-40]

ASSOCIATE PROFESSOR DE VYVER

265. **International Trade and Tariff Policies.**—3 s.h.

PROFESSOR VON BECKERATH

266. **International Finance.**—3 s.h.

PROFESSOR HAMILTON

268. **Competitive versus Monopolistic Enterprise.**—3 s.h.

PROFESSOR VON BECKERATH

275-276. **Advanced Industrial Accounting and Management.**—Courses 57-58 and 105 are ordinarily prerequisites for this course. 6 s.h.  
[Not offered in 1939-40]

ASSISTANT PROFESSOR BLACK

#### FOR GRADUATES

311-312. **History of Political Economy.**—6 s.h.

PROFESSOR HAMILTON

313-314. **Seminar in Economic Theory.**—Prerequisite: Economics 241-242 or its equivalent. 6 s.h.

PROFESSOR HOOVER

315. **Economic Systems.**—Credit for this course will be given only if the student takes Economics 316. (Formerly 215.) 3 s.h.

PROFESSOR HOOVER

316. **Economic Functions of the State.**—Prerequisite: Economics 315 or its equivalent. (Formerly 216.) 3 s.h.

PROFESSOR HOOVER

318. **General Seminar in Economics.**—2 s.h.

STAFF

#### RELATED COURSES IN OTHER DEPARTMENTS

Attention is called to the following courses in related departments:

**Forestry 279. Economics of Forestry.**—3 s.h.

ASSOCIATE PROFESSOR THOMSON

**History 219-220. The History of the European Proletariat.**—6 s.h.

PROFESSOR CARROLL

**Political Science 207. American Constitutional Law and Theory.**—3 s.h.

PROFESSOR WILSON

**Political Science 209. State and Local Governments in the United States.**—3 s.h.

PROFESSOR RANKIN

**Political Science 271. Socio-Politics and Capitalism.**—3 s.h.

PROFESSOR VON BECKERATH

**Sociology 219. Urban Sociology.**—3 s.h.

ASSISTANT PROFESSOR THOMPSON

**Sociology 220. Rural Sociology.**—3 s.h.

ASSISTANT PROFESSOR THOMPSON

**Sociology 227. Emigration and Immigration.**—3 s.h.  
[Not offered in 1939-40]

PROFESSOR JENSEN

## EDUCATION

PROFESSOR HOLTON, CHAIRMAN; PROFESSOR BROWNELL, DIRECTOR OF GRADUATE STUDIES; PROFESSORS CARR, CHILDS, AND PROCTOR; ASSOCIATE PROFESSOR SCATES; ASSISTANT PROFESSOR EASLEY

## ELEMENTARY EDUCATION

FOR SENIORS AND GRADUATES

207. Technique of Teaching.—3 s.h. PROFESSOR CARR  
[Not offered in 1939-40]

212. Psychology of the Elementary School Subjects.—3 s.h. PROFESSOR CARR

222. The Curriculum and Materials of the Elementary Grades.—3 s.h. PROFESSOR CARR  
[Not offered in 1939-40]

232. Elementary School Supervision.—3 s.h. PROFESSOR CARR

## EXPERIMENTAL EDUCATION AND EDUCATIONAL PSYCHOLOGY

FOR SENIORS AND GRADUATES

208. Mental Tests and Applications.—Prerequisite: course 258 or six semester hours of other work in educational psychology or psychology. 3 s.h. ASSISTANT PROFESSOR EASLEY

209. Statistical Methods Applied to Education.—3 s.h. ASSOCIATE PROFESSOR SCATES

216. Psychological Principles of Secondary Education.—3 s.h. PROFESSOR CHILDS

217. Advanced Educational Psychology.—3 s.h. ASSISTANT PROFESSOR EASLEY

218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h. PROFESSOR BROWNELL

219. Experimental Education.—3 s.h. PROFESSOR BROWNELL

227. The Psychology of Learning: Problems.—3 s.h. ASSISTANT PROFESSOR EASLEY

228. The Psychology of Learning: Theoretical and Experimental.—Prerequisite: course 227 or its equivalent. 3 s.h. ASSISTANT PROFESSOR EASLEY  
[Not offered in 1939-40]

237. Investigations in Reading.—3 s.h. PROFESSOR CARR

247. Investigations in Arithmetic.—3 s.h. PROFESSOR BROWNELL

258. Educational Measurements.—Prerequisite: twelve semester hours in the Department, including a course in educational psychology. 3 s.h. ASSOCIATE PROFESSOR SCATES

FOR GRADUATES

307-308. Seminar in Educational Psychology.—2 s.h. PROFESSOR BROWNELL AND ASSISTANT PROFESSOR EASLEY

309-310. Research in Educational Psychology.—3 to 6 s.h. PROFESSOR BROWNELL

338. Research in Reading.—3 s.h.

PROFESSOR CARR

[Not offered in 1939-40]

339. Research Course in Educational Tests.—Prerequisite: the equivalent of course 258. 3 s.h.

ASSOCIATE PROFESSOR SCATES

348. Research in Arithmetic.—3 s.h.

PROFESSOR BROWNELL

### HISTORY AND PHILOSOPHY OF EDUCATION

#### FOR SENIORS AND GRADUATES

200. Introduction to the Philosophy of Education.—3 s.h.

[Not offered in 1939-40]

PROFESSOR HOLTON

214. History of Education in the United States.—3 s.h.

PROFESSOR HOLTON

244. Studies in the Historical Development of Public School Administration.—3 s.h.

[Not offered in 1939-40]

PROFESSOR HOLTON

254. History of Secondary Education in the United States.—3 s.h.

PROFESSOR PROCTOR

264. Recent Movements in American Education.—3 s.h.

[Not offered in 1939-40]

PROFESSOR HOLTON

294. Comparative Education: Recent Movements in European Educational Systems.—3 s.h.

PROFESSOR CARR

### PUBLIC SCHOOL ADMINISTRATION

#### FOR SENIORS AND GRADUATES

203. Principles of School Administration.—Prerequisite: Education 103 and 58, or six semester hours of equivalent work in education. 3 s.h.

PROFESSOR PROCTOR

233. Administrative Pupil-Accounting.—3 s.h.

[Not offered in 1939-40]

PROFESSOR PROCTOR

234. Secondary School Organization and Administration.—3 s.h.

PROFESSOR PROCTOR

253. Legal Phases of School Administration.—3 s.h.

[Not offered in 1939-40]

PROFESSOR HOLTON

#### FOR GRADUATES

323. Public School Finance.—3 s.h.

[Not offered in 1939-40]

PROFESSOR PROCTOR

343. State and County School Administration.—3 s.h.

[Not offered in 1939-40]

PROFESSOR PROCTOR

363. City School Administration.—3 s.h.

PROFESSOR PROCTOR

### SECONDARY EDUCATION AND EDUCATIONAL SOCIOLOGY

#### FOR SENIORS AND GRADUATES

205. Curriculum Problems in Secondary Education.—3 s.h.

[Not offered in 1939-40]

PROFESSOR CHILDS

206. Sociological Foundations of the Secondary School Subjects.—Pre-requisite: six semester hours in education, including course 105. 3 s.h.  
[Not offered in 1939-40] PROFESSOR CHILDS

225. The Teaching of History and the Social Studies.—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER

246. The Teaching of Mathematics.—3 s.h. PROFESSOR RANKIN

266. The Teaching of High-School French.—3 s.h. PROFESSOR WEBB

#### METHODOLOGY OF RESEARCH

##### FOR GRADUATES

300. Methods of Educational Research: Seminar.—3 s.h.  
MEMBERS OF THE DEPARTMENT

#### RELATED COURSES IN OTHER DEPARTMENTS

##### FOR MAJORS IN EDUCATIONAL PSYCHOLOGY, ELEMENTARY EDUCATION, AND SECONDARY EDUCATION

Psychology 201. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS

Psychology 209. Experimental Methods in Human Psychology.—4 s.h.  
ASSOCIATE PROFESSOR ZENER

Psychology 211. Physiological Psychology.—4 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR ZENER

Psychology 216. Seminar in Comparative Psychology.—2 or 3 s.h.  
ASSOCIATE PROFESSOR ADAMS

Psychology 217. Gestalt Theory.—3 s.h. ASSOCIATE PROFESSOR ADAMS  
[Not offered in 1939-40]

Psychology 219. History of Psychology.—2 s.h.

Psychology 226. Contemporary Schools of Psychology.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR ZENER

Psychology 305. Seminar.—2 or 3 s.h.

Psychology 306. Seminar in Child Psychology.—2 or 3 s.h.  
ASSOCIATE PROFESSOR ADAMS

Psychology 309. Theory of Learning.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR ADAMS

Psychology 315. Child Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS

Sociology 212. Child Welfare.—3 s.h. PROFESSOR JENSEN  
[Not offered in 1939-40]

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN

Sociology 232. Cultural Anthropology.—3 s.h. PROFESSOR HART

Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD

Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## FOR MAJORS IN PUBLIC SCHOOL ADMINISTRATION

- Economics 230. Public Debts.—3 s.h. ASSISTANT PROFESSOR RATCHFORD
- Political Science 209. State and Local Government in the United States.—  
3 s.h. PROFESSOR RANKIN
- Political Science 291. Municipal Government.—3 s.h. PROFESSOR RANKIN
- Religion 365. Seminar in Character Education and the State.—2 s.h.  
PROFESSOR SMITH
- Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN

## FOR MAJORS IN HISTORY AND PHILOSOPHY OF EDUCATION

- History 209-210. Constitutional History of the United States, 1763-1860.—  
6 s.h. ASSISTANT PROFESSOR STILL  
[Not offered in 1939-40]
- Philosophy 205. The Philosophy of History.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
- Philosophy 208. Political Philosophy.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR MORGAN
- Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
- Religion 362. Ethical Theory of Christian Education.—3 s.h.  
PROFESSOR SMITH
- Religion 363-364. Religious Thought in the Rise of American Culture.—  
6 s.h. PROFESSOR SMITH
- Sociology 319. Principles of Sociology.—3 s.h. PROFESSOR ELLWOOD
- Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## ENGLISH

PROFESSOR BROWN, CHAIRMAN; PROFESSORS BAUM, GILBERT,\* GOHDES, HUBBELL,  
IRVING, AND WHITE; ASSISTANT PROFESSORS ALLEN AND WARD

## FOR SENIORS AND GRADUATES

- 201-202. Anglo-Saxon.—6 s.h. PROFESSOR BROWN
- 203-204. Chaucer.—6 s.h. PROFESSOR BAUM
- 207-208. English Literature, 1400-1550.—6 s.h. PROFESSOR BAUM  
[Not offered in 1939-40]
- 209-210. English Literature other than Drama, 1625-1700.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR WARD
211. English Literature other than Drama of the Early Seventeenth Cen-  
tury.—3 s.h. ASSISTANT PROFESSOR ALLEN
- 213-214. Folk-Lore and Folk-Songs.—6 s.h. PROFESSOR BROWN  
[Not offered in 1939-40]
- 215-216. Elizabethan Drama.—6 s.h.  
PROFESSOR GILBERT AND ASSISTANT PROFESSOR ALLEN

\* Absent on leave, 1939-40.



217. Spenser.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
218. Milton.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
- 219-220. English Prose and Poetry of the Eighteenth Century.—6 s.h. PROFESSOR IRVING  
[Not offered in 1939-40]
221. Restoration and Eighteenth-Century Drama.—3 s.h. ASSISTANT PROFESSOR WARD
- 225-226. Studies in Victorian Literature.—6 s.h. PROFESSOR BAUM
- 227-228. Literary Criticism.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
- 229-230. American Literature, 1800-1870.—6 s.h. PROFESSORS HUBBELL AND GOHDES, AND ASSISTANT PROFESSOR ANDERSON
- 231-232. Special Studies in American Authors.—6 s.h. PROFESSOR GOHDES
- 233-234. American Literature since 1870.—6 s.h. PROFESSOR GOHDES
- 239-240. Shakespeare Problems.—6 s.h. PROFESSOR BROWN  
[Not offered in 1939-40]
- 269-270. Southern Literature and Culture.—6 s.h. PROFESSOR HUBBELL

## FOR GRADUATES

- 303-304. Studies in Elizabethan Literature.—6 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
- 307-308. Southern Literature and Culture in the United States.—6 s.h. PROFESSOR HUBBELL  
[Not offered in 1939-40]
- 313-314. Studies in the Romantic Writers of the Early Nineteenth Century.—6 s.h. PROFESSOR WHITE
- 315-316. Middle English.—6 s.h. PROFESSOR BAUM
- 349-350. Research Courses.—6 s.h.

Students who wish to elect one of these as a seminar course should consult the Chairman of the Department as early as possible.

In 1939-40 (a), (g), and (i) are offered.

- (a) Folk-Lore and the Ballad. PROFESSOR BROWN
- (b) Shakespeare Problems. PROFESSOR BROWN
- (c) English Language and Literature, 1200-1550. PROFESSOR BAUM
- (d) Victorian Literature. PROFESSOR BAUM
- (e) Elizabethan and Seventeenth-Century Literature. PROFESSOR GILBERT
- (f) Literary Criticism. PROFESSOR GILBERT
- (g) The Eighteenth Century. PROFESSOR IRVING
- (h) The Romantic Movement. PROFESSOR WHITE
- (i) American Literature. PROFESSORS HUBBELL AND GOHDES

## RELATED COURSES IN OTHER DEPARTMENTS

The attention of students of English is directed to the following courses :

German 301-302. Gothic—Middle High German.—6 s.h.

PROFESSOR VOLLMER

Greek 201-202. Greek Tragedy.—6 s.h.

PROFESSOR PEPPLER AND ASSISTANT PROFESSOR WAY

History 221-222. The Age of the Renaissance.—6 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.

ASSISTANT PROFESSOR QUINN

Philosophy 201-202. The Philosophy of Art.—6 s.h.

[Not offered in 1939-40]

PROFESSOR GILBERT

Philosophy 213-214. History of Aesthetics.—6 s.h.

PROFESSOR GILBERT

Psychology 202. Psychology of Aesthetics.— 3 s.h.

PROFESSOR LUNDHOLM

## DIVISION OF FORESTRY

PROFESSOR KORSTIAN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS BEAL, SCHUMACHER, AND WOLF; ASSOCIATE PROFESSORS HARRAR, KRAMER, MAUGHAN, AND THOMSON; ASSISTANT PROFESSOR COILE

## FOR SENIORS AND GRADUATES

224. Forest Pathology.—Prerequisites: Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h.

PROFESSOR WOLF

232. Forest Entomology.—3 s.h.

PROFESSOR BEAL

251. Sampling Methods in Forestry.—Prerequisite: Forestry S151. 2 s.h.

PROFESSOR SCHUMACHER

252. Forest Mensuration.—Prerequisite: Forestry 251. 2 s.h.

PROFESSOR SCHUMACHER

253. Dendrology.—Prerequisite: one year of botany. 4 s.h.

ASSOCIATE PROFESSOR HARRAR

257. Design of Forestry Experiments and Analysis of Data.—5 s.h.

PROFESSOR SCHUMACHER

259. Wood Anatomy and Properties.—Prerequisites: One year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h.

ASSOCIATE PROFESSOR HARRAR

261. Forest Soils.—Prerequisites: Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h.

ASSISTANT PROFESSOR COILE

264. Silvics.—Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261 or equivalents. 3 s.h.

PROFESSOR KORSTIAN

276. Forest Policy.—2 s.h.

ASSOCIATE PROFESSOR THOMSON

279. Economics of Forestry.—Prerequisite: at least one course in the principles of economics. 3 s.h.

ASSOCIATE PROFESSOR THOMSON

## FOR GRADUATES

323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF

351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER

354. **Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. ASSISTANT PROFESSOR COILE

356. **Advanced Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h. ASSOCIATE PROFESSOR THOMSON

357-358. **Research in Forestry.**—Credits to be arranged.

a. **Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN

b. **Forest Soils.**—Prerequisite: Forestry 261 or equivalent. ASSISTANT PROFESSOR COILE

d. **Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSOCIATE PROFESSOR MAUGHAN

e. **Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents. ASSOCIATE PROFESSOR THOMSON

f. **Wood Anatomy and Properties.**—Prerequisite: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents. PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 232 or equivalent. PROFESSOR BEAL

## GERMANIC LANGUAGES AND LITERATURE

PROFESSOR VOLLMER, CHAIRMAN; PROFESSOR KRUMMEL

## FOR SENIORS AND GRADUATES

201-202. **Goethe.**—6 s.h. PROFESSOR KRUMMEL

207-208. **German Romanticism.**—6 s.h. PROFESSOR VOLLMER

209-210. **Kleist, Grillparzer, and Hebbel.**—6 s.h. PROFESSOR KRUMMEL  
[Not offered in 1939-40]

211-212. **Heinrich Heine and the Young German Movement.**—6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

213-214. **Literature of the Empire, 1871-1914.**—6 s.h. PROFESSOR VOLLMER  
[Not offered in 1939-40]

## FOR GRADUATES

301-302. **Gothic—Middle High German.**—6 s.h. PROFESSOR VOLLMER

303-304. **German Seminar.** PROFESSORS VOLLMER AND KRUMMEL

## RELATED COURSES IN OTHER DEPARTMENTS

History 217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL  
[Not offered in 1939-40]

History 221-222. The Age of the Renaissance.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

History 223-224. Medieval Institutions and Culture.—6 s.h.  
ASSISTANT PROFESSOR QUINN

History 225-226. The Age of the Reformation.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

Philosophy 213-214. History of Aesthetics.—6 s.h. (E) PROFESSOR GILBERT

Philosophy 223. Contemporary Philosophy.—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]

Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

## HISTORY

PROFESSOR LAPRADE, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
CARROLL AND SYDNOR; ASSOCIATE PROFESSORS CLYDE, LANNING, AND NELSON\*;  
ASSISTANT PROFESSORS MANCHESTER, QUINN, STILL, AND WOODY

## AMERICAN HISTORY

## FOR SENIORS AND GRADUATES

209-210. Constitutional History of the United States, 1763-1860.—6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR STILL

215-216. History of the Foreign Relations of the United States.—6 s.h.  
ASSOCIATE PROFESSOR CLYDE

231. The Hispanic Colonies of the New World.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR LANNING

232. The Hispanic American Republics of the New World.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR LANNING

233. The Cultural and Institutional History of Colonial Hispanic America.—3 s.h.  
ASSOCIATE PROFESSOR LANNING

234. Political and Social Problems in the Hispanic American Republics.—  
3 s.h. ASSOCIATE PROFESSOR LANNING

263-264. American Colonial History and the Revolution, 1606-1783.—6 s.h.  
ASSISTANT PROFESSOR WOODY

265-266. The Westward Movement in the United States.—6 s.h.  
ASSISTANT PROFESSOR STILL

## FOR GRADUATES

304. The Union, Confederacy, and Reconstruction.—4 s.h.  
ASSISTANT PROFESSOR WOODY

315. Seminar in Southern History.—Year course. 2 s.h.  
PROFESSOR SYDNOR

321. Seminar in the History of Spain and the Spanish-American Colonies.  
2 s.h. ASSOCIATE PROFESSOR LANNING

\* Absent on leave, 1939-40.

329. Historiography of the South.—4 s.h. ASSISTANT PROFESSOR WOODY  
[Not offered in 1939-40]

336. The South in Federal Politics, 1789-1860.—4 s.h. PROFESSOR SYDNOR

337. Social and Economic Life of the Old South.—4 s.h.  
[Not offered in 1939-40] PROFESSOR SYDNOR

### EUROPE AND THE FAR EAST

#### FOR SENIORS AND GRADUATES

217-218. Europe since 1870.—6 s.h. PROFESSOR CARROLL  
[Not offered in 1939-40]

219-220. The History of the European Proletariat.—6 s.h.  
PROFESSOR CARROLL

221-222. The Age of the Renaissance.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

223-224. Medieval Institutions and Culture.—6 s.h.  
ASSISTANT PROFESSOR QUINN

225-226. The Age of the Reformation.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON

241. History of Modern Japan.—3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]

342. History of Modern China.—3 s.h. ASSOCIATE PROFESSOR CLYDE  
[Not offered in 1939-40]

#### FOR GRADUATES

305. Seminar in the History of England and the British Empire.—2 s.h.  
PROFESSOR LAPRADE

317. Seminar in Recent European History.—2 s.h. PROFESSOR CARROLL

325. British Nationality and Public Opinion.—4 s.h. PROFESSOR LAPRADE  
[Not offered in 1939-40]

327. Modern Phases of the English Constitution.—4 s.h.  
PROFESSOR LAPRADE

343. Seminar in the History of American Foreign Relations and the Far  
East.—2 s.h. ASSOCIATE PROFESSOR CLYDE

### THE TEACHING OF HISTORY

#### FOR SENIORS AND GRADUATES

211. The Teaching of History and the Social Studies.—3 s.h.  
ASSISTANT PROFESSOR MANCHESTER

### BIBLIOGRAPHY

#### FOR GRADUATES

326. Historiography and Bibliography.—2 s.h.  
[Not offered in 1939-40] MEMBERS OF THE DEPARTMENT

### RELATED COURSES IN OTHER DEPARTMENTS

Church History 233. Church History to the Reformation.—3 s.h.  
ASSISTANT PROFESSOR PETRY

- Church History 334. The Church in America.—6 s.h. PROFESSOR GARBER
- Economics 231. Economic History of Modern Europe.—3 s.h.  
PROFESSOR HAMILTON
- Economics 232. Economic History of the United States.—3 s.h.  
PROFESSOR HAMILTON
- Economics 311-312. History of Political Economy.—6 s.h.  
PROFESSOR HAMILTON
- Economics 315. Economic Systems.—3 s.h. PROFESSOR HOOVER
- Economics 316. Economic Functions of the State.—3 s.h.  
PROFESSOR HOOVER
- Old Testament 309. History of the Ancient Near East.—3 s.h.  
ASSISTANT PROFESSOR STINESPRING
- Political Science 223. Political Thought to the Seventeenth Century.—  
3 s.h. PROFESSOR WILSON
- Political Science 224. Modern Political Theory.—3 s.h.  
PROFESSOR WILSON
- Religious Education 363-364. Religious Thought in the Rise of American  
Culture.—6 s.h. PROFESSOR SMITH
- Sociology 320. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

### MATHEMATICS

ASSOCIATE PROFESSOR GERGEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES;  
PROFESSORS ELLIOTT, RANKIN AND THOMAS; ASSOCIATE PROFESSOR CARLITZ;  
ASSISTANT PROFESSORS HICKSON, MILES, AND ROBERTS;  
DRS. BOAS AND DRESSSEL\*

#### FOR SENIORS AND GRADUATES

201. History of Mathematics.—3 s.h.  
PROFESSOR RANKIN
204. Teaching of Mathematics.—Must be preceded or accompanied by  
Mathematics 52 or 60. 3 s.h. PROFESSOR RANKIN
207. Fundamental Concepts of Algebra and Geometry.—Prerequisite: in-  
tegral calculus. 3 s.h.  
[Not offered in 1939-40]
225. Theory of Equations.—Prerequisite: differential calculus. 3 s.h.  
PROFESSOR THOMAS
- 227-228. Theory of Numbers.—Prerequisite: integral calculus. 6 s.h.  
ASSOCIATE PROFESSOR CARLITZ
- 229-230. Algebraic Numbers.—Prerequisite: Mathematics 225. 6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ
- 235-236. Modern Algebra.—Prerequisite: differential calculus. 6 s.h.  
[Not offered in 1939-40]
250. Modern Geometry.—Prerequisite: differential calculus. 3 s.h.  
[Not offered in 1939-40]

\* Absent on leave, 1939-40.



252. **Non-Euclidean Geometry.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR ROBERTS
- 255-256. **Projective Geometry.**—Prerequisite: differential calculus. 6 s.h.  
ASSISTANT PROFESSOR ROBERTS
275. **Probability.**—Prerequisite: integral calculus. 3 s.h. DR. BOAS
281. **Elementary Potential Theory.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR MILES
282. **Differential Equations of Mathematical Physics.**—Prerequisite: integral calculus. 3 s.h. DR. DRESSEL  
[Not offered in 1939-40]
283. **Fourier Series and Spherical Harmonics.**—Prerequisite: integral calculus. 3 s.h.  
[Not offered in 1939-40]
284. **Vector Analysis.**—Prerequisite: integral calculus. 3 s.h.  
PROFESSOR THOMAS
287. **Mathematical Logic.**—3 s.h.  
[Not offered in 1939-40]
288. **Foundations of Mathematics.**—3 s.h.  
[Not offered in 1939-40]
- 291-292. **Theory of Functions.**—Prerequisite: Mathematics 140. 6 s.h.  
ASSOCIATE PROFESSOR GERGEN
- FOR GRADUATES
- 325-326. **Real Variable.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40]
- 331-332. **Complex Variable.**—Prerequisite: Mathematics 291-292. 6 s.h.  
ASSOCIATE PROFESSOR GERGEN AND DR. BOAS
- 333-334. **Analytic Theory of Numbers.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40]
- 335-336. **Infinite Series.**—Prerequisite: Mathematics 139-140. 6 s.h.  
[Not offered in 1939-40]
- 337-338. **Existence Theorems.**—Prerequisite: Mathematics 291-292. 6 s.h.  
PROFESSOR THOMAS
- 341-342. **Integral Equations.**—Prerequisites: Mathematics 131 and 139-140. 6 s.h.  
[Not offered in 1939-40] PROFESSOR ELLIOTT
- 343-344. **Ordinary Differential Equations.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40]
- 345-346. **Calculus of Variations.**—Prerequisites: Mathematics 131 and 291-292. 6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR HICKSON
- 347-348. **Elliptic Functions.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40]
- 351-352. **Differential Geometry.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40]

353-354. **Trigonometric Series.**—Prerequisite: Mathematics 325-326. 6 s.h.  
[Not offered in 1939-40]

371-372. **Topology.**—Prerequisite: Mathematics 291-292. 6 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR ROBERTS

382. **Potential Theory.**—Prerequisites: Mathematics 281 and 325-326. 6 s.h.  
[Not offered in 1939-40]

## PHILOSOPHY

PROFESSOR WIDGERY, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
GILBERT AND SMITH; ASSOCIATE PROFESSOR MORGAN; ASSISTANT  
PROFESSOR LEONARD; AND DR. McLARTY

### FOR SENIORS AND GRADUATES

- 201-202. **The Philosophy of Art.**—6 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]
203. **The Philosophy of Conduct.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
204. **Christian Ethics.**—3 s.h. PROFESSOR SMITH
205. **The Philosophy of History.**—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
206. **Modern Political Theory.**—3 s.h. Political Science 224.  
PROFESSOR WILSON
207. **Political Thought to the Seventeenth Century.**—3 s.h. Political Sci-  
ence 223. PROFESSOR WILSON
208. **Political Philosophy.**—3 s.h. ASSOCIATE PROFESSOR MORGAN  
[Not offered in 1939-40]
- 209-210. **The Philosophy of Religion.**—6 s.h. PROFESSOR WIDGERY
212. **Psychology of Belief.**—2 s.h. Psychology 228.  
PROFESSOR LUNDHOLM
- 213-214. **History of Aesthetics.**—6 s.h. PROFESSOR GILBERT
- 215-216. **Plato.**—*Symposium, Protagoras*, and parts of the *Republic*. 6 s.h.  
Greek 209-210. ASSISTANT PROFESSOR WAY
217. **The Philosophy of Aristotle.**—Prerequisite: 105. 3 s.h.  
DR. McLARTY
- 219-220. **The Age of the Renaissance.**—6 s.h. History 221-222.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR NELSON
223. **Contemporary Philosophy.**—3 s.h. PROFESSOR WIDGERY  
[Not offered in 1939-40]
226. **The History of Ethics.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
227. **Foundations of Mathematics.**—3 s.h. Mathematics 288.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ
228. **Mathematical Logic.**—3 s.h. Mathematics 287.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR CARLITZ
- 229-230. **Contemporary Physics.**—6 s.h. Physics 213-214.  
ASSISTANT PROFESSOR CONSTANT

231-232. Philosophy of Science. ASSISTANT PROFESSOR LEONARD

234. Introduction to the Philosophy of Education.—3 s.h. Education 200.  
[Not offered in 1939-40] PROFESSOR HOLTON

236. Oriental Philosophy I. Chinese Philosophy.—3 s.h.  
ACTING PROFESSOR DUBS

238. Oriental Philosophy II. Indian Philosophy.—3 s.h.  
[Not offered in 1939-40] PROFESSOR WIDGERY

241. Logic.—3 s.h. ASSISTANT PROFESSOR LEONARD

242. Scientific Methodology.—3 s.h. ASSISTANT PROFESSOR LEONARD

244. European Thought in the Latter Half of the Nineteenth Century,  
with Special Reference to Nietzsche.—Prerequisite: six hours; admission  
otherwise by permission of the instructor. A reading knowledge of German  
is desirable. 3 s.h. ASSOCIATE PROFESSOR MORGAN

245-246. Philosophical Foundations of Religious Belief.—6 s.h.  
[Not offered in 1939-40] ACTING PROFESSOR DUBS

248. Philosophy of Values.—2 s.h. ACTING PROFESSOR DUBS

249. Platonism and Christianity.—3 s.h. ASSISTANT PROFESSOR OUTLER

250. Philosophical Theology in the Nineteenth Century.—3 s.h.  
ASSISTANT PROFESSOR OUTLER

#### FOR GRADUATES

301-302. Seminar in Philosophy.—4 s.h. PROFESSOR WIDGERY

305. Seminar: Spinoza.—3 s.h. PROFESSOR GILBERT

307. Seminar: Kant. ASSOCIATE PROFESSOR MORGAN

308. Seminar: Hegel.—3 s.h. PROFESSOR GILBERT  
[Not offered in 1939-40]

310. Seminar: Logical Positivism and Its Relation to Contemporary  
Movements in Philosophy and Science.—2 s.h. ASSISTANT PROFESSOR LEONARD

311. Historical and Philosophical Biology.—2 s.h. Zoology 341.  
PROFESSOR HARGITT

313-314. Seminar: Theories of the Self.—4 s.h. Religion 377-378.  
PROFESSOR HICKMAN

315. Seminar: Leibnitz.—2 s.h. ACTING PROFESSOR DUBS

316. History of Social Philosophy.—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN

317. Theology in Ancient and Medieval Christianity.—3 s.h. Religion 323.  
ASSISTANT PROFESSOR OUTLER

318. Theology in Modern Christianity.—3 s.h. Religion 324.  
ASSISTANT PROFESSOR OUTLER

319-320. Religious Thought in the Rise of American Culture.—Prereq-  
uisite: Religious Education 261 or its equivalent. 6 s.h. Religion 363-364.  
PROFESSOR SMITH

322. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. Religion 366. 3 s.h. PROFESSOR SMITH

323. Seminar: Bushnell, Channing, Emerson.—2 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]

325. Seminar: Locke, Berkeley, Hume.—2 s.h.  
ASSISTANT PROFESSOR LEONARD

## PHYSICS

PROFESSOR NIELSEN, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
EDWARDS, HATLEY, NORDHEIM, AND SPONER; ASSISTANT PROFESSORS  
CONSTANT AND MOUZON; DRs. BONNER AND HEBB

### FOR SENIORS AND GRADUATES

203-204. Analytical Mechanics.—6 s.h. DR. HEBB

205-206. Physical Optics.—6 s.h. PROFESSOR HATLEY

211. History of Physics.—2 s.h. PROFESSOR EDWARDS

213-214. Contemporary Physics.—6 s.h. ASSISTANT PROFESSOR CONSTANT

215-216. Atomic Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

217-218. Advanced General Physics Laboratory.—2 s.h.  
PROFESSOR NIELSEN AND ASSISTANT PROFESSOR MOUZON

219. Vacuum Tubes and Their Application.—Prerequisites: 8 s.h. of  
physics, differential and integral calculus. 3 s.h.  
ASSISTANT PROFESSOR MOUZON

221-222. Introduction to Theoretical Physics.—6 s.h.  
ASSISTANT PROFESSOR CONSTANT

### FOR GRADUATES

303. Thermodynamics.—3 s.h. PROFESSORS GROSS AND SPONER  
[Not offered in 1939-40]

304. Kinetic Theory of Matter.—3 s.h. PROFESSOR SPONER  
[Not offered in 1939-40]

307. Theory of Electricity and Magnetism.—Prerequisite: Physics 221-222.  
3 s.h. ASSISTANT PROFESSOR CONSTANT

311. Conduction of Electricity through Gases.—3 s.h.  
PROFESSOR EDWARDS

315-316. Principles of Quantum Theory.—6 s.h. PROFESSOR NORDHEIM

317. Advanced Dynamics.—3 s.h. DR. HEBB

319. Electrodynamics.—3 s.h. PROFESSOR NORDHEIM  
[Not offered in 1939-40]

320. Theory of Electrons.—Prerequisite: Physics 319. 3 s.h.  
[Not offered in 1939-40] PROFESSOR NORDHEIM

323. Theory of Atomic Spectra.—3 s.h. PROFESSOR SPONER

324. Theory of Molecular Spectra.—3 s.h. PROFESSOR SPONER

340. Structure of Matter.—3 s.h. PROFESSORS SPONER AND NORDHEIM
- 341-342. Advanced Topics in Physics.—2-6 s.h.  
PROFESSORS SPONER AND NORDHEIM  
The fields taken up in the courses 340-342 will vary from year to year.
- 343-344. Radioactivity and Nuclear Structure.—6 s.h.  
PROFESSOR NIELSEN
- 345-346. Colloquium.—No credit. STAFF
- 351-352. Seminar.—2 s.h. STAFF
- 353-354. Thesis Seminar.—6 s.h. STAFF

## RELATED COURSES IN OTHER DEPARTMENTS

## CHEMISTRY

- 261-262. Physical Chemistry.—6 s.h.  
PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS
- 363-364. Advanced Physical Chemistry.—6 s.h.  
PROFESSORS GROSS AND VOSBURGH, ASSISTANT  
PROFESSOR SAYLOR, DRs. HILL AND HOBBS

## ELECTRICAL ENGINEERING

261. Communication Engineering, Audio Frequency.—3 s.h.  
PROFESSOR SEELEY
262. Communication Engineering, Radio Frequency.—Prerequisite: course  
261. 4 s.h. PROFESSOR SEELEY

## MATHEMATICS

281. Elementary Potential Theory.—3 s.h. ASSISTANT PROFESSOR MILES  
[Not offered in 1939-40]
282. Differential Equations of Mathematical Physics.—3 s.h.  
[Not offered in 1939-40] DR. DRESSER
283. Fourier's Series and Spherical Harmonics.—3 s.h.  
[Not offered in 1939-40]
284. Vector Analysis.—3 s.h. PROFESSOR THOMAS

## POLITICAL SCIENCE

PROFESSOR WILSON,\* CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
RANKIN AND VON BECKERATH; ASSOCIATE PROFESSORS COLE AND  
SHIPMAN; ASSISTANT PROFESSOR LINEBARGER

## FOR SENIORS AND GRADUATES

207. American Constitutional Law and Theory.—3 s.h.  
PROFESSOR WILSON
209. State and Local Government in the United States.—3 s.h.  
PROFESSOR RANKIN
211. Political Institutions of the Far East.—3 s.h.  
ASSISTANT PROFESSOR LINEBARGER
212. International Politics of the Far East.—3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR LINEBARGER

\* Absent on leave, second semester, 1939-40.

214. The Minor States of the Far East.—3 s.h.

ASSISTANT PROFESSOR LINEBARGER

223. Political Thought to the Seventeenth Century.—3 s.h.

PROFESSOR WILSON

224. Modern Political Theory.—3 s.h.

PROFESSOR WILSON

225-226. Comparative Government.—6 s.h.

ASSOCIATE PROFESSOR COLE

227-228. International Law and International Organization.—6 s.h.

PROFESSOR WILSON

229. Recent and Contemporary Political Theory.—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR COLE

230. American Political Institutions.—3 s.h.

PROFESSOR RANKIN

241-242. The Administrative Process.—6 s.h.

ASSOCIATE PROFESSOR SHIPMAN

244. Administrative Law.—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR SHIPMAN

246. Legislation.—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR SHIPMAN

271. Socio-Politics and Capitalism.—3 s.h.

PROFESSOR VON BECKERATH

291. Municipal Government.—3 s.h.

PROFESSOR RANKIN

292. Municipal Administration.—3 s.h.

PROFESSOR RANKIN

#### FOR GRADUATES

310. Seminar in State Government.—3 s.h.

[Not offered in 1939-40]

PROFESSOR RANKIN

326. Seminar in Comparative Government.—3 s.h.

ASSOCIATE PROFESSOR COLE

328. Seminar in International Law.—3 s.h.

[Not offered in 1939-40]

PROFESSOR WILSON

#### RELATED COURSES IN OTHER DEPARTMENTS

Economics 230. Public Debts in the United States.—3 s.h.

ASSISTANT PROFESSOR RATCHFORD

Economics 265. International Trade and Tariff Policies.—3 s.h.

PROFESSOR VON BECKERATH

Economics 266. International Finance.—3 s.h.

PROFESSOR HAMILTON

Economics 316. Economic Functions of the State.—3 s.h.

PROFESSOR HOOVER

History 215-216. History of the Foreign Relations of the United States.—6 s.h.

ASSOCIATE PROFESSOR CLYDE

History 217-218. Europe since 1870.—6 s.h.

[Not offered in 1939-40]

PROFESSOR CARROLL

History 234. Political and Social Problems in the Hispanic American Republics.—3 s.h.

ASSOCIATE PROFESSOR LANNING



Philosophy 208. Political Philosophy.—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR MORGAN

Sociology 213. Constructive Social Policies.—2 s.h. PROFESSOR JENSEN

Readings in Jurisprudence.—Offered in the School of Law.

PROFESSOR FULLER

Roman Law.—Offered in the School of Law.

PROFESSOR FULLER

### PSYCHOLOGY

PROFESSOR MCDUGALL, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES\*; PROFESSORS LUNDHOLM AND RHINE; ASSOCIATE PROFESSORS ADAMS AND ZENER

#### FOR SENIORS AND GRADUATES

201. Social Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS

202. Psychology of Aesthetics.—3 s.h. PROFESSOR LUNDHOLM

204. Psychology of Motivation.—3 s.h. ASSOCIATE PROFESSOR ZENER

207. Psychology of Memory, Perceiving, Thinking.—3 s.h.

ASSOCIATE PROFESSOR ZENER

[In 1939-40 offered in the spring semester only]

209. Experimental Methods in Human Psychology.—4 s.h.

ASSOCIATE PROFESSOR ZENER

211. Physiological Psychology.—3 s.h.

ASSOCIATE PROFESSOR ZENER

[Not offered in 1939-40]

212. Developmental Psychology.—3 s.h.

PROFESSOR —————

216. Seminar in Comparative Psychology.—2 or 3 s.h.

ASSOCIATE PROFESSOR ADAMS

217. Gestalt Theory.—3 s.h.

ASSOCIATE PROFESSOR ADAMS

[Not offered in 1939-40]

219. History of Psychology.—2 s.h.

PROFESSOR MCDUGALL\*

223. Abnormal Psychology.—3 s.h.

PROFESSOR LUNDHOLM

226. Contemporary Schools of Psychology.—3 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR ZENER

228. Psychology of Belief.—2 s.h.

PROFESSOR LUNDHOLM

[Not offered in 1939-40]

229. Seminar in Child Psychology.—2 or 3 s.h.

PROFESSOR —————

231-232. Introduction to Research.—2 or 3 s.h.

PROFESSORS MCDUGALL,\* LUNDHOLM, AND RHINE;  
ASSOCIATE PROFESSORS ADAMS AND ZENER

233. Social Psychology of Value and Valuation.—2 s.h.

PROFESSOR MCDUGALL\*

\* Deceased, November 28, 1938.

## FOR GRADUATES

302. Seminar on Psychoanalysis.—3 s.h. PROFESSOR LUNDHOLM
- 303-304. Research.—2 or 3 s.h.  
PROFESSORS McDUGALL,\* LUNDHOLM, AND RHINE;  
ASSOCIATE PROFESSORS ADAMS AND ZENER
305. Seminar.—2 or 3 s.h. PROFESSOR McDUGALL\*
306. Seminar in Child Psychology.—2 or 3 s.h.  
ASSOCIATE PROFESSOR ADAMS
307. Seminar in Psychology of Personality.—3 s.h. PROFESSOR RHINE
309. Theory of Learning.—3 s.h. ASSOCIATE PROFESSOR ADAMS  
[Not offered in 1939-40]
- 313-314. Seminar in Parapsychology.—6 s.h. PROFESSOR RHINE  
[Not offered in 1939-40]
315. Child Psychology.—3 s.h. ASSOCIATE PROFESSOR ADAMS
317. Seminar: Special Problems in the Psychology of Aesthetics.—3 s.h.  
PROFESSOR LUNDHOLM

## RELIGION

Graduate work in the field of religion is available in the following departments: Old Testament, New Testament, Christian Doctrine, Church History, Religious Education, Psychology of Religion, History of Religion, Philosophy, and Sociology. Students interested in graduate work in these fields are referred to the *Bulletin of the School of Religion* of Duke University. All the courses listed there, except those of a professional character, may be offered for credit toward the degrees of the Graduate School. A number of these courses will be found listed in this bulletin also under the headings of related departments.

It is possible to secure work leading to the degree of Doctor of Philosophy in a number of these fields. For this degree the departmental groupings of courses are ignored and a program of work is planned for each candidate in which the total resources of the Graduate School will be utilized in so far as they relate to the student's needs and special subject of investigation.

## ROMANCE LANGUAGES

PROFESSOR WEBB, CHAIRMAN; PROFESSOR JORDAN, DIRECTOR OF GRADUATE STUDIES;  
PROFESSOR COWPER;† ASSOCIATE PROFESSORS LUNDEBERG AND WALTON

## FRENCH

## FOR SENIORS AND GRADUATES

- 213-214. The Classical Movement in French Literature of the Seventeenth and Eighteenth Centuries.—6 s.h. ASSOCIATE PROFESSOR WALTON
- 215-216. The Modern French Novel.—6 s.h. PROFESSOR JORDAN
217. French Phonetics.—3 s.h. PROFESSOR WEBB
218. Materials and Methods.—3 s.h. PROFESSOR WEBB
219. Old French.—3 s.h. PROFESSOR COWPER  
[Not offered in 1939-40]

\* Deceased, November 28, 1938.

† Absent on leave, second semester, 1939-40.

220. Old French.—Types of Old French literature. 3 s.h.  
[Not offered in 1939-40] PROFESSOR COWPER
227. French Poetry since Théophile Gautier.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON
232. Rousseau and the Beginnings of Romanticism.—3 s.h.  
[Not offered in 1939-40] PROFESSOR COWPER
233. Main Currents of Modern French Literature.—3 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON

## FOR GRADUATES

317. History of the French Language.—3 s.h. PROFESSOR COWPER
- 323-324. Realism and Naturalism.—6 s.h. PROFESSOR JORDAN
- 325-326. French Literature in the Sixteenth Century.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR WALTON
328. Anatole France.—3 s.h. ASSOCIATE PROFESSOR WALTON  
[Not offered in 1939-40]
329. History of French Civilization.—3 s.h. PROFESSOR WEBB  
[Not offered in 1939-40]
330. Victor Hugo.—3 s.h. PROFESSOR WEBB  
[Not offered in 1939-40]
331. Diderot and the Encyclopédie.—3 s.h. PROFESSOR COWPER  
[Not offered in 1939-40]
- 333-334. Contemporary French Literature.—6 s.h. PROFESSOR JORDAN  
[Not offered in 1939-40]
350. Nineteenth-Century French Criticism.—3 s.h. PROFESSOR JORDAN  
[Not offered in 1939-40]

## SPANISH

## FOR SENIORS AND GRADUATES

253. Spanish Phonetics.—Prerequisites: Spanish 65-66, or 3-4 with permission. (Enrollment limited to fifteen students.) 3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG
254. Materials and Methods.—Prerequisites: Spanish 65-66 or equivalent.  
3 s.h. ASSOCIATE PROFESSOR LUNDEBERG
- 261-262. The Modern Spanish Novel.—6 s.h.  
[Not offered in 1939-40] ASSOCIATE PROFESSOR LUNDEBERG
265. Golden Age Literature: Cervantes.—3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG
266. Golden Age Literature: The Don Juan Theme.—3 s.h.  
ASSOCIATE PROFESSOR LUNDEBERG

## SOCIOLOGY

PROFESSOR ELLWOOD, CHAIRMAN AND DIRECTOR OF GRADUATE STUDIES; PROFESSORS  
HART, AND JENSEN; ASSISTANT PROFESSOR THOMPSON

205. Social Pathology.—Prerequisite: course 91-92 or 101. 3 s.h.  
PROFESSOR JENSEN

206. **Criminology.**—Prerequisite: course 91-92 or 101. 3 s.h.  
PROFESSOR JENSEN
212. **Child Welfare.**—Prerequisite: course 91-92 or 101. 3 s.h.  
[Not offered in 1939-40] PROFESSOR JENSEN
213. **Constructive Social Policies.**—2 s.h. PROFESSOR JENSEN
219. **Urban Sociology.**—Prerequisite: course 91-92 or 101. 3 s.h.  
ASSISTANT PROFESSOR THOMPSON
220. **Rural Sociology.**—Prerequisite: course 91-92 or 101. 3 s.h.  
ASSISTANT PROFESSOR THOMPSON
227. **Emigration and Immigration.**—Prerequisite: course 91-92 or 101  
3 s.h. PROFESSOR JENSEN  
[Not offered in 1939-40]
231. **General Anthropology.**—3 s.h. PROFESSOR HART
232. **Cultural Anthropology.**—3 s.h. PROFESSOR HART
233. **The World Crisis in the Light of Social Anthropology.**—3 s.h.  
PROFESSOR HART
234. **Social Ethics.**—3 s.h. PROFESSOR HART
236. **The American Indian.**—3 s.h.  
[Not offered in 1939-40]
242. **Marriage and the Family.**—Prerequisite for undergraduate credit:  
Sociology 91-92 or 101. 2 s.h. PROFESSOR GROVES (U. N. C.)
251. **Education and Social Control.**—2 s.h. PROFESSOR ELLWOOD
- FOR GRADUATES
317. **Seminar in Anthropology.**—1 to 3 s.h. PROFESSOR HART
318. **Religion and the World Crisis.**—3 s.h. PROFESSOR HART
319. **Principles of Sociology.**—3 s.h. PROFESSOR ELLWOOD
320. **History of Social Philosophy.**—3 s.h.  
PROFESSORS ELLWOOD AND JENSEN
322. **Methods of Social Research.**—3 s.h. PROFESSOR JENSEN
330. **Seminar.**—1 s.h. PROFESSORS ELLWOOD, HART, AND JENSEN;  
ASSISTANT PROFESSOR THOMPSON
340. **Seminar.**—3 s.h. ASSISTANT PROFESSOR THOMPSON
350. **Seminar in Applied Sociology.**—1 to 3 s.h. PROFESSOR JENSEN
351. **Seminar in Medical Sociology.**—2 s.h.
352. **Seminar in Family Law.**—2 s.h. PROFESSOR BRADWAY

#### RELATED COURSES IN OTHER DEPARTMENTS

- Economics 218. **Population Problems and the Standard of Living.**—3 s.h.  
PROFESSOR SPENGLER
- Economics 315. **Economic Systems.**—3 s.h. PROFESSOR HOOVER

Economics 316. Economic Functions of the State.—3 s.h.

PROFESSOR HOOVER

Philosophy 205. Philosophy of History.—3 s.h.

PROFESSOR WIDGERY

[Not offered in 1939-40]

Political Science 223. Political Thought to the Seventeenth Century.—

3 s.h.

PROFESSOR WILSON

Political Science 224. Modern Political Theory.—3 s.h.

PROFESSOR WILSON

Psychology 201. Social Psychology.—2 s.h. ASSOCIATE PROFESSOR ADAMS

## ZOOLOGY

PROFESSOR PEARSE, CHAIRMAN; PROFESSOR HARGITT, DIRECTOR OF GRADUATE STUDIES; PROFESSORS CUNNINGHAM AND HALL; ASSOCIATE PROFESSOR GRAY; DR. BOOKHOUT

### FOR SENIORS AND GRADUATES

204. Advanced Parasitology.—Prerequisite: Zoology 161. 3 or 4 s.h.

[Not offered in 1939-40]

PROFESSOR PEARSE

219-220. Special Problems.—(Not more than four hours of credit may be obtained in one semester.)

STAFF

222. Entomology.—Prerequisite: one year of zoology. 4 s.h.

ASSOCIATE PROFESSOR GRAY

224. Vertebrate Zoology.—Prerequisite: Zoology 53. 4 s.h.

[Not offered in 1939-40]

ASSOCIATE PROFESSOR GRAY

229. Endocrinology.—Prerequisite: Zoology 53, 92. 3 or 4 s.h.

PROFESSOR CUNNINGHAM

### FOR GRADUATES

303. Ecology.—4 s.h.

[Not offered in 1939-40]

PROFESSOR PEARSE

306. Advanced Ecology.—Prerequisite: Zoology 303. 4 s.h.

[Not offered in 1939-40]

PROFESSOR PEARSE

307. Foundations of Zoology.—2 s.h.

PROFESSOR PEARSE

321. General Physiology.—4 s.h.

PROFESSOR HALL

324. Advanced Physiology.—Prerequisite: Zoology 151 or 321. 4 s.h.

PROFESSOR HALL

327. Experimental Embryology.—Prerequisites: Zoology 92, 151 or 321.

3 s.h.

PROFESSOR CUNNINGHAM

341. Historical and Philosophical Zoology.—2 s.h.

[Not offered in 1939-40]

PROFESSOR HARGITT

343. Cytology.—Prerequisites: Zoology 53, 92, 156 or equivalents. 4 s.h.

PROFESSOR HARGITT

351-352. Zoological Journal Club.—Required of all graduate students who major in zoology. 2 s.h.

STAFF

353-354. Research.—Hours and credits to be arranged.

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|--|--------------------------|
| (a) Embryology and Endocrinology.        | PROFESSOR CUNNINGHAM     |
| (b) Comparative and General Physiology.  | PROFESSOR HALL           |
| (c) Histology and Cytology.              | PROFESSOR HARGITT        |
| (d) Invertebrate Zoology.                | DR. BOOKHOUT             |
| (e) Ecology, Parasitology, and Behavior. | PROFESSOR PEARSE         |
| (f) Vertebrate Zoology and Entomology.   | ASSOCIATE PROFESSOR GRAY |

355-356. Seminar.—Hours and credits to be arranged.

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|--|--------------------------|
| *(a) Embryology and Endocrinology.       | PROFESSOR CUNNINGHAM     |
| *(b) Comparative and General Physiology. | PROFESSOR HALL           |
| *(c) Histology and Cytology.             | PROFESSOR HARGITT        |
| (d) Invertebrate Zoology.                | DR. BOOKHOUT             |
| (e) Ecology, Parasitology, and Behavior. | PROFESSOR PEARSE         |
| *(f) Vertebrate Zoology and Entomology.  | ASSOCIATE PROFESSOR GRAY |

#### RELATED COURSES IN OTHER DEPARTMENTS

Courses such as the following should be considered as available for students in zoology:

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|--|--|
| Botany 202. Genetics.—4 s.h.   | ASSISTANT PROFESSOR PERRY                                  |
| Botany 221. Structure and Classification of Fungi.—4 s.h.                      | PROFESSOR WOLF   |
| Botany 256. Field Ecology.—4 s.h.  | ASSISTANT PROFESSOR OOSTING                                |
| Botany 341. Methods in Plant Physiology.—4 s.h.                                | ASSOCIATE PROFESSOR KRAMER                                 |
| Botany 342. Plant Microchemistry.—2 s.h.                                       | ASSISTANT PROFESSOR ADDOMS                                 |
| Chemistry 261-262. Physical Chemistry.—6 s.h.                                  | PROFESSOR GROSS, ASSISTANT PROFESSOR SAYLOR, AND DR. HOBBS |
| Physics 103. Electricity and Magnetism.—(Undergraduate credit only.)<br>3 s.h. | ASSISTANT PROFESSOR CONSTANT                               |
| Physics 104. Electrical Measurements.—(Undergraduate credit only.)<br>3 s.h.   | PROFESSOR NIELSEN AND ASSISTANT PROFESSOR CONSTANT         |
| Physics 205-206. Physical Optics.—6 s.h.                                       | PROFESSOR HATLEY   |
| M221. Bacteriology and Immunology.—4 s.h.                                      | DR. D. T. SMITH AND STAFF                                  |
| M223. Advanced Bacteriology and Immunology.—8 s.h.                             | DR. D. T. SMITH AND STAFF                                  |
| M241. General Biochemistry.—6 s.h.   | DRS. PERLZWEIG AND TAYLOR, AND STAFF                       |
| M263. Physiology of Digestion, Metabolism, and Nutrition.—2 s.h.               | DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM                 |
| M363-364. Advanced Seminar in Nutrition.—4 s.h.                                | DR. DANN   |

\* [Not offered in 1939-40.]



## COURSES IN THE MEDICAL SCHOOL OPEN TO GRADUATE STUDENTS

PROFESSORS EADIE, PERLZWEIG, D. T. SMITH, AND SWETT; ASSOCIATE PROFESSORS F. M. BERNHEIM, HETHERINGTON, MARTIN, MCCREA, AND TAYLOR; ASSISTANT PROFESSORS M. L. C. BERNHEIM, DANN, AND YATES; DRs. CONANT, COOLIDGE, EVERETT, HOLLINSHEAD, NEURATH, AND YOUNGSTROM

### ANATOMY

**M201. Gross Human Anatomy.**—Hours and credits (maximum 8 s.h.) by arrangement. Prerequisites: Zoology 41 and 191 or the equivalent.

DR. SWETT AND STAFF

**M202. Microscopic Anatomy.**—Hours and credits (maximum 2 s.h.) by arrangement. Prerequisite: Zoology 42 (General Histology) or its equivalent.

DR. HETHERINGTON AND STAFF

**M203. Anatomy of the Nervous System.**—Hours and credits (maximum 4 s.h.) by arrangement. Prerequisite: Anatomy M201.

DR. HETHERINGTON

**M204. Human Embryology.**—Laboratory work, hours and credits (maximum 2 s.h.) by arrangement. Limited to eight students. Prerequisites: Zoology 41 and 191.

DR. SWETT AND STAFF

**M205. Regional Anatomy.**—Hours and credits (maximum 3 s.h.) by arrangement. Prerequisites: Anatomy M201 and M202.

DR. SWETT AND STAFF

### BACTERIOLOGY AND IMMUNOLOGY

**M221. Bacteriology and Immunology.**—Prerequisites: courses in general zoology, general botany, histology and comparative anatomy, general and organic chemistry. 4 s.h.

DR. D. T. SMITH AND STAFF

**M323. Advanced Bacteriology and Immunology.**—8 s.h.

DR. D. T. SMITH AND STAFF

### BIOCHEMISTRY

**M241. General Biochemistry.**—Prerequisites: general chemistry, organic chemistry, elementary physical and analytical chemistry and at least one year of college biology. *Winter quarter.* 6 s.h.

DRs. PERLZWEIG AND TAYLOR, AND STAFF

**M242. Biochemical Preparations.**—Prerequisite: Biochemistry M241. *Spring, summer, fall quarters.* Hours by arrangement. 2 s.h.

DR. TAYLOR AND STAFF

**M243-244. Physical Chemical and Colloid Chemical Principles of Biochemistry.**

DR. NEURATH

**M341. Pathological Chemistry.**—Prerequisites: Biochemistry M241 and Physiology M251-2. *Spring quarter.*

DRs. PERLZWEIG, TAYLOR, AND M. L. C. BERNHEIM

### PHYSIOLOGY AND PHARMACOLOGY

**M261-2. Human Physiology and Pharmacology.**—Prerequisites: Anatomy M201 and Biochemistry M241 (or equivalents) and at least one year of college physics. Credits depending on work taken. (Maximum 8 s.h.)

DR. EADIE AND STAFF

**M263. Physiology of Digestion, Metabolism, and Nutrition.**—Prerequisite: Biochemistry M241. *Spring quarter.* 2 s.h.

DRS. W. J. DANN, EADIE, AND F. M. BERNHEIM

**M363-4. Advanced Seminar in Nutrition.**—Prerequisites: Biochemistry M241 and Physiology M261 or equivalents. Two hours weekly. 4 s.h.

DR. DANN

## FEES AND EXPENSES

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### GENERAL FEES IN THE ACADEMIC YEAR

Matriculation, per semester.....	\$ 25.00
Tuition, per semester.....	100.00
Room-rent—See the detailed statement that follows.	
Athletic fee, admitting students to all athletic contests held on the University grounds, per semester.....	5.00
Damage fee, payable annually at the time of first registration.....	1.00
Medical fee, per semester.....	5.00
Library fee, per semester.....	5.00
Commencement fee, payable once by graduate students in the last semester before a degree is conferred.....	3.00
Diploma fee, payable by candidates for degrees at the beginning of the second semester, refunded if the diploma is not awarded.....	5.00

### ROOMS

Rooms are available for men in the new graduate dormitory, Few Quadrangle, on the West Campus. Graduate women are housed in the Faculty Apartments on the East Campus. Rates for rooms and similar information are given in the Miscellaneous Information section elsewhere in this Catalogue.



# THE SCHOOL OF LAW

1938-1939

ANNOUNCEMENTS FOR 1939-1940

MEMBER OF THE ASSOCIATION OF AMERICAN LAW SCHOOLS

APPROVED BY THE AMERICAN BAR ASSOCIATION

## CALENDAR

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1939

- Sept. 20. Wednesday—Registration of Law Students.  
Sept. 21. Thursday—Commencement of Instruction.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 11. Monday—Duke University Day.  
Dec. 20. Wednesday—1:00 P.M. Christmas recess begins.

1940

- Jan. 3. Wednesday—8:30 A.M. Instruction is resumed.  
Jan. 17. Wednesday—Mid-year examinations begin.  
Jan. 31. Wednesday—Last day for matriculation for second semester.  
Feb. 1. Thursday—Second semester begins.  
March 30. Saturday—1:00 P.M. Spring vacation begins.  
April 8. Monday—8:30 A.M. Instruction is resumed.  
May 17. Friday—Final examinations begin.  
June 1. Saturday—Commencement opens; Faculty breakfast for Law Seniors.  
June 2. Sunday—President's Address to Graduating Class.  
June 3. Monday—Commencement Address; Graduating Exercises.



## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., Ed.D., LL.D.  
*President*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President in the Business Division,  
Secretary and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division  
and Dean of the University*

FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

H. CLAUDE HORACK, Ph.B., LL.B.  
*Dean of the School of Law*

HELEN MILDRED KENDALL, A.B.  
*Registrar of the School of Law*

### FACULTY COMMITTEES

*Committee on Curriculum:* H. C. Horack, Chairman, Bryan Bolich, John S. Bradway, Douglas B. Maggs, Malcolm McDermott, Elvin R. Latty.

*Committee on Graduate Study:* Lon L. Fuller, Chairman, David F. Cavers, H. C. Horack, Charles L. B. Lowndes, Douglass Poteat.

*Committee on Rules:* Charles L. B. Lowndes, Chairman, Bryan Bolich, David F. Cavers, Paul Sanders.

*Committee on Scholarship:* Malcolm McDermott, Chairman, Lon L. Fuller, Douglass Poteat.

*Committee on Emergency Aids and Loans to Law Students:* John S. Bradway, Chairman, T. D. Bryson, Mary S. Covington, Lon L. Fuller, Elvin R. Latty.

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### LAW SCHOOL COMMITTEE OF THE BOARD OF TRUSTEES

Willis Smith, Raleigh, North Carolina.

James A. Bell, Charlotte, North Carolina.

W. R. Perkins, New York City.

B. S. Womble, Winston-Salem, North Carolina.

## ORGANIZATION, EQUIPMENT, AND SPECIAL ACTIVITIES

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### HISTORY AND ORGANIZATION

Legal instruction in Trinity College dates from 1850, but it was not until 1868 that professional training in law was offered. The two chairs in the Department of Law were those of National and Constitutional Law, and Common and Statute Law. President Braxton Craven occupied the former from 1868 until his death in 1882. Outstanding members of the bench and bar were specially engaged, in given years, to lecture on particular subjects. Complete instruction was given "by daily lectures and regular examinations," and students were "fully prepared to obtain license."

In 1882 the Department of Law was discontinued. In 1891 instruction in law was resumed, with the appointment of the Honorable A. C. Avery, Associate Justice of the Supreme Court of North Carolina, as dean of the Law School, and continued until 1894.

The School of Law of Trinity College was founded in the summer of 1904 upon an endowment established by James B. Duke and Benjamin N. Duke. Samuel Fox Mordecai organized the School and was its dean until his death in 1927. Its establishment set a new standard in Southern legal education in that it was the first school to require college work as preliminary to law study. It required the completion of two years of college work as prerequisite to entrance, the case method was used as the basis of instruction, and the completion of three years of resident study was required for a law degree.

In 1924 the School of Law of Trinity College became the Duke University School of Law pursuant to the establishment of the Duke Endowment. In 1930 the School was moved into its new building, the Faculty and Library were greatly increased, and the activities of the School broadened. In 1931 the entrance requirement was raised from two to the present requirement of three years of college work. The School of Law is a member of the Association of American Law Schools and is on the "Approved List" of the American Bar Association.

### PURPOSES AND METHOD OF INSTRUCTION

The School of Law offers such courses in its curriculum as will provide an adequate preparation for the practice of law in any state. Through facilities for study and research, training is afforded for those desiring to specialize in particular branches of the law.

To provide scope for creative work by the student, seminar courses and the courses in Current Decisions are offered. To achieve balance between intellectual discipline and that practical training which the young

lawyer is otherwise left to obtain at the expense of his clients, courses are offered in Research and Briefing and Practice Court, and the third-year class participates in the work of the Legal Aid Clinic.

### THE LAW SCHOOL BUILDING

The Law Building, like all other structures on the main campus of Duke University, is in Tudor Gothic style of colorful Cambrian stone from the Duke University quarries. It was occupied by the School of Law for the first time in September, 1930. In it are classrooms, seminar rooms, offices for Faculty and Staff, quarters for the Legal Aid Clinic and for the Duke Bar Association, a courtroom equipped for trial court and appellate court sessions, and the Law Library.

### THE LAW LIBRARY

The Law Library contains a collection of more than sixty thousand volumes and is the largest law school library in the South. It consists of American and English statutory and case law; a collection of Continental Law materials; treatises, digests, encyclopedias; the various selected case series; a comprehensive collection of legal periodicals; and publications in the fields of history, economics, government, and the other social sciences, supplemental to the strictly legal materials. The Library receives every current legal periodical of general interest printed in the English language.

### THE LEGAL AID CLINIC

A Legal Aid Clinic was organized at the School of Law in 1931 under the direction of Professor John S. Bradway, Secretary of the National Association of Legal Aid Organizations, who had directed similar undertakings in Philadelphia and Los Angeles. The purpose of the Clinic is threefold: to give the student experience in handling actual cases; to develop creative skills, techniques, and mental habits; to encourage a sense of responsibility to client, court, profession, and community.

### THE PRACTICE COURSE

The practice course in the School of Law is under the direction of Judge T. D. Bryson, for eight years Judge of the Superior Court of the Twentieth Judicial District of North Carolina. The object of the course is to offer third-year students an opportunity to visualize by actual experience the application of the principles of law imparted in other courses.

### LEGAL PERIODICALS

The School of Law publishes a quarterly, *Law and Contemporary Problems*, under the editorship of Professor Cavers. This periodical, now in its sixth volume, presents in each issue a symposium on a problem of current legal importance, in which the interrelated social and economic, as well as legal, factors are discussed by writers of competence in these

respective fields. Where student research may contribute to the understanding of the legal aspects of such problems, student writings are accepted for publication. Included among the topics discussed in the first five volumes of *Law and Contemporary Problems* are food and drug control, low-cost housing, federal criminal laws, industrial and group-life insurance, instalment selling, migratory divorce, expert testimony, social security legislation, the compensation of the motor accident victim, the Securities Act of 1933, price discrimination and price cutting, and collective bargaining under the Wagner Act.

The circulation of *Law and Contemporary Problems* extends not only to members of the legal profession and law libraries throughout the country, but also to industrial and financial concerns, governmental agencies, and public and general university libraries. Individual issues are not infrequently used as materials for study in university courses.

The Duke Bar Association has published since 1933 the *Duke Bar Association Journal* in which appear reports of addresses made before the Association by distinguished guests, proceedings of the Association at its regular meetings, and items of interest concerning the School. To afford a medium for the publication of the student notes and comments on recent important decisions prepared in the Current Decisions course without necessitating the inclusion in the quarterly of the department of student work usual in "law reviews," the *Journal* publishes such notes and comments as are deemed by the editors to be of special merit. Professor Cavers serves as adviser to the student editorial board of the *Journal*.

### THE DUKE BAR ASSOCIATION

The Duke Bar Association was established in the spring of 1931. It is composed of all the students of the Law School and is organized along the lines of the American Bar Association. Its purpose is to introduce the student to the problems considered by the bar in professional organizations and to develop professional consciousness and responsibility. It publishes the *Duke Bar Association Journal*, described in the preceding section. Its activities are carried on by the students with the co-operation of Dean Horack of the Law Faculty as general adviser.

## GENERAL INFORMATION

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### MATRICULATION, REGISTRATION, AND ENROLLMENT

On the day of registration, September 20, 1939, the applicant must obtain from the Dean of the Law School an admission card, indicating that he is entitled to register. Registration is conducted in the Law Building. All students, both old and new, are required to register at the beginning of each semester, at which time class schedule and course cards must be filled out and approved. Students matriculating in either semester at a date later than that prescribed in this catalogue shall pay to the Treasurer a penalty of \$5.00 for late registration. Instruction will begin in all classes on Thursday, September 21, 1939.

### FEES AND EXPENSES

Tuition and registration fees are due at the beginning of each semester. The matriculation fee is \$25.00 a semester. The tuition fee is \$100.00 a semester. A damage fee of \$1.00 is collected at the beginning of the first semester only, an athletic fee of \$5.00 at the beginning of each semester, a library fee of \$5.00 each semester, and a medical fee of \$5.00 each semester. The graduation fee, payable by all students to whom a degree is awarded, is \$10.00.

### SCHOLARSHIPS AND STUDENT AIDS

A limited number of scholarships covering tuition and matriculation fees (\$250) are available to first-year students, graduates of approved American universities and colleges, who are in need of such assistance. Applicants must have made excellent records in their college work and must show unusual promise of success in the study of law.

Applications for scholarships should be presented before May 1 to the Dean of the Law School, together with a transcript of college work and letters of recommendation from responsible persons, certifying to the character and fitness of the applicant.

### AWARDS

*Willis Smith Prize.* Mr. Willis Smith, a member of the Raleigh bar and Chairman of the Law School Committee of the Board of Trustees of Duke University, awards each year to that member of the graduating class of the Law School who has maintained the highest scholastic average during the entire three years of law school work, a prize consisting of a set of books selected personally by Mr. Smith each year for that purpose. The winner of the prize for 1932 was Jeter S. Ray, Newport, Tenn.; for 1933, William B. McGuire, Jr., Franklin, N. C.; for 1934, Robert Gilpin

Seaks, Harrisburg, Pa.; for 1935, Erle Pettus, Jr., Birmingham, Ala.; for 1936, Edward Rubin, Los Angeles, Calif.; for 1937, William R. Perdue, Jr., Macon, Ga.; and for 1938, Thomas E. Butterfield, Jr., Bethlehem, Pa.

#### ORDER OF THE COIF

A chapter of the Order of the Coif, national legal scholarship society, has been established at Duke University School of Law. Its purpose is "to foster a spirit of careful study and to mark in a fitting manner those who have attained a high grade of scholarship." Election is restricted to the ten per cent of the Senior Class who have attained the highest rank in their law school work. Those receiving this honor in the graduating class of 1938 were Edward B. Bulleit, Gettysburg, Pa.; Thomas E. Butterfield, Jr., Bethlehem, Pa.; and Richard M. Cann, Greensboro, N. C.



## **ADMISSION OF STUDENTS**

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### **REQUIREMENTS FOR ADMISSION**

Any person may be admitted as a candidate for the degree of Bachelor of Laws (1) who is a graduate of a college of approved standing, or (2) who has completed in a college of approved standing work equivalent in number of units to three-fourths of that required for graduation and whose college work in its entirety shows an average grade equal to that required for graduation, the requirement in each case being determined by the regulations of the college where the work was taken.

### **COMBINED COURSE**

A number of colleges, upon application by their students, have permitted those who have completed three years of undergraduate work to enter the Law School of Duke University and upon the satisfactory completion of the first year of law school work to receive their Bachelor of Arts degrees from such colleges. It is suggested that students desiring to enter Duke University School of Law make inquiry of their proper college authorities regarding this point.

A student in either of the Liberal Arts Colleges of Duke University may complete in six years a combined course wherein he will have received his academic degree and also the degree of Bachelor of Laws. This arrangement is made possible under the following recommendations of the Faculty of the Arts Colleges:

Students who have completed with not less than a "C" average at least ninety-six semester hours of undergraduate work in the pre-legal group of studies in Duke University may on the approval of the Dean of the Undergraduate College transfer to this Law School and become eligible for the Bachelor's degree on the satisfactory completion of the full twenty-six semester hours of work of the first-year class in this School.

It is understood that this provision shall apply solely to eligible Duke University undergraduates, and that not less than the full first-year's work of the Law School will be acceptable for credit toward the Bachelor's degree.

It should be noted that while the Combined Course plan of securing two degrees is restricted to those who have taken the "pre-legal course," general admission to the Law School is not so restricted.

### **ADMISSION TO ADVANCED STANDING**

Any person, who has complied with the requirements for admission set forth in this announcement, prior to the commencement of his law study, who shall present evidence of the satisfactory completion of any part of the curriculum of the Law School at any law school which is a

member of the Association of American Law Schools, and who is eligible for readmission to the law school from which he proposes to transfer, may be admitted to advanced standing, subject to such rules as would be applicable to students in this School having a comparable scholastic record. Provisional credit for courses so completed shall be given, final credit for such work to be conditioned on the completion of at least one full year of law study in this School with an average of at least five points above the passing grade. Adjustment of credit for work done in such other law schools may be by vote of the Faculty.

#### **CANDIDATES FOR GRADUATE DEGREES**

Applications for admission to graduate study should be addressed to the Dean of the Law School and should include transcripts of records of legal and pre-legal work.

## REQUIREMENTS FOR BACHELOR OF LAWS DEGREE—STUDENT PROGRAMS

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### BACHELOR OF LAWS DEGREE

Upon favorable recommendation of the Faculty, the degree of Bachelor of Laws will be conferred on students who shall have successfully completed three years' study of law, the last full year of work immediately preceding the granting of such degree having been completed, except under extraordinary circumstances, in this School.

A student shall be deemed to have completed successfully three years' study of law if during this period he has

(1) secured a passing grade in courses aggregating the number of semester hours in the first-year program of study plus forty-eight semester hours;

(2) secured in every required course a grade not requiring repetition thereof; and

(3) secured an average grade at least five points above passing in all work taken other than first-year courses, or, if such grade is lower than that above specified, an average grade of five points above passing in all work taken.

Students who shall have spent only their third year of study in residence in this School must have received an average grade at least five points above passing for that year.

### THE FIRST-YEAR PROGRAM

All of the first-year courses are required for graduation, and no second- or third-year courses may be elected until the student has secured grades not requiring repetition of any first-year courses or has made provision for the completion thereof.

The following courses comprise the work of the first year:

<i>Subject</i>	<i>Hours per semester</i>	
Chattel Transactions .....	2	2
Contracts .....	3	3
Criminal Law and Its Administration .....	2	2
Torts .....	3	2
Introduction to Procedure .....	2	
Legal Bibliography .....	1	
Agency .....		2
Possessory Estates .....		2
	13	13

## SECOND- AND THIRD-YEAR PROGRAMS

The course in Research and Briefing is required of those second-year students who have not been selected to take the course in Current Decisions I. The course in Legal Aid Clinic is required of those third-year students who have not been selected to take the course in Current Decisions II. The course in Legal Ethics is required of all third-year students.

With the exceptions noted above, all courses offered for the second and third years are elective. For the guidance of second-year students in 1939-40, the Faculty recommends the inclusion of the following courses in their programs of study:

<i>Subject</i>	<i>Hours per semester</i>	
Constitutional Law .....	2	3
Equity .....	2	2
Pleading (Prerequisite to Practice) .....	2	1
Research and Briefing .....	1	1
Bills and Notes .....	3	
Conveyancing .....	3	
Business Associations I .....		3
Credit Transactions .....	2	2
Trusts .....		3
	15	15

For the student who wishes to take in his second year, courses other than those listed above, the following are suggested as suitable for study in the second year:

<i>Subject</i>	<i>Hours per semester</i>	
Family Law .....	2	
Landlord and Tenant .....	2	
Municipal Corporations .....	2	
Future Interests .....		3
Wills and Administration of Estates .....		3

It should be distinctly understood that the courses in this second list are not suggested as either more or less suitable for study in the third year than those not included therein. In the selection of courses in addition to or in substitution for those recommended above, the student should consult the course groupings appearing at another place in this bulletin, so that he may choose those courses which will contribute most directly to his work in the field of study to which he wishes to devote his major efforts in the third year. The student intending to enter the general practice of law is cautioned, however, not to sacrifice, through undue concentration, the acquisition of a broad foundation for his subsequent activities.

The courses included in the above lists and all other courses offered are described on pages 216 to 218 of this bulletin. The courses offered which are not included in the above lists comprise:

<i>Subject</i>	<i>Hours per semester</i>	
Current Decisions I .....	1	1
Current Decisions II .....	1	1
Evidence .....	2	2
Legal Aid Clinic .....	2	2
Practice .....	2	2
Taxation .....	2	2
Administrative Law .....	2	
Business Associations II .....	3	
Conflict of Laws .....	3	
Debtors' Estates .....	3	
Insurance .....	2	
Legal Ethics .....	1	
Legal History .....	3	
Legislation .....	2	
Readings in Jurisprudence .....	2	
Damages .....		2
Family Law Seminar .....		2
Federal Jurisdiction and Procedure .....		2
Labor Law .....		2
Legislation Seminar .....		2
North Carolina Statutes .....		2
Regulation of Business .....		3
Roman Law: Comparative Law of Obligation .....		2
Seminar in Legal History .....		2

# **GRADUATE WORK IN LAW**

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## **GRADUATE DEGREES**

The School of Law confers two graduate degrees, the degree of Master of Laws (LL.M.) and the degree of Doctor of Juridical Science (S.J.D.).

### **REQUIREMENTS FOR ADMISSION TO GRADUATE STUDY**

Any person who shall have received the first degree in law from a law school qualified for membership in the Association of American Law Schools and whose college course and law course combined shall have occupied at least six years, may be admitted as a candidate for the degree of Master of Laws. In exceptional cases an applicant who does not meet all the above requirements may be admitted, on vote of the Faculty, to candidacy for this degree where he is able to demonstrate that he is specially qualified, as by reason of practice or teaching.

Any person holding the degree of Master of Laws from this or any other law school which is qualified for membership in the Association of American Law Schools may be admitted by the Faculty to candidacy for the degree of Doctor of Juridical Science provided he completed the work for the Master's degree with distinction.

### **THE DEGREE OF MASTER OF LAWS**

Upon favorable recommendation of the Faculty, the degree of Master of Laws will be conferred on students who have successfully completed during a period of residence at this School totaling at least one year a course of study approved by the Committee on Graduate Study.

The courses of study, leading to this degree are designed to provide for the needs of two classes of students: (1) graduates of approved law schools who desire a fourth year of study for the purpose of undertaking an intensive study of some specialty, or who desire to broaden their legal education through the study of such subjects as jurisprudence and legal history; (2) graduates of approved law schools who desire to teach law or engage in legal research and who intend to become candidates for the degree of Doctor of Juridical Science.

One year of resident study is required for the degree of Master of Laws. No thesis is required. The course of study is prescribed by the Committee on Graduate Study after consultation with the individual student. Opportunity will be afforded the student to include in his program such second- and third-year law courses, not already completed, as are desirable for the rounding out or supplementing of his previous training. In some cases, courses in other departments of the University may be included. In the case of students whose interests lie in further preparation for practice, the course will normally include registration in subjects



totaling twelve hours each semester. In the case of students interested primarily in legal research, a lighter schedule, so far as enrollment in formal courses is concerned, may be arranged. In cases where less than twelve hours' work is prescribed for either semester, the Committee on Graduate Study may require that the student complete the work undertaken with a grade considerably higher than that required of candidates for the first degree in law.

#### THE DEGREE OF DOCTOR OF JURIDICAL SCIENCE

Upon favorable recommendation of the Faculty, the degree of Doctor of Juridical Science will be conferred on students admitted to candidacy for that degree who complete and submit a monograph or series of essays suitable for publication and deemed by the Faculty to be of distinguished character. At least one academic year must elapse between the awarding of the Master's degree and the awarding of the degree of Doctor of Juridical Science. Students who have received the degree of Master of Laws from another law school must spend at least one year engaged in research at this School and may in addition be required to complete a course of study prescribed by the Committee on Graduate Study.

## COURSES OFFERED

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*This is a condensed description of courses. For a full description, see Bulletin of the School of Law.*

### 1. GENERAL COURSES

- Torts.**—Three hours a week, first semester; two hours, second semester.  
PROFESSOR MAGGS
- Equity.**—Two hours a week throughout the year. PROFESSOR HORACK
- Trusts.**—Three hours a week, second semester. PROFESSOR LOWNDES
- Conflict of Laws.**—Three hours a week, first semester.  
PROFESSOR CAVERS
- Damages.**—Two hours a week, second semester. PROFESSOR FULLER
- Family Law.**—Two hours a week, first semester. PROFESSOR BRADWAY
- Family Law Seminar.**—Family Law is prerequisite. Two hours a week,  
second semester. PROFESSOR BRADWAY
- North Carolina Statutes.**—Two hours a week, second semester.  
PROFESSOR BRYSON

### 2. BUSINESS COURSES

- Contracts.**—Three hours a week throughout the year. PROFESSOR FULLER
- Agency.**—Two hours a week, second semester. PROFESSOR LOWNDES
- Bills and Notes.**—Three hours a week, first semester.  
PROFESSOR LOWNDES
- Business Associations I.**—Three hours a week, second semester.  
PROFESSOR LATTY
- Business Associations II—Finance and Accounting.**—Three hours a week,  
first semester. PROFESSOR LATTY
- Credit Transactions.**—Two hours a week throughout the year.  
PROFESSOR POTEAT
- Debtors' Estates.**—Three hours a week, first semester. PROFESSOR POTEAT
- Insurance.**—Two hours a week, first semester.  
ASSISTANT PROFESSOR SANDERS
- Public Utilities.**—Three hours a week, first semester.  
[Not offered in 1939-40.]
- Regulation of Business.**—Three hours a week, second semester.  
PROFESSOR CAVERS

### 3. PROPERTY COURSES

- Chattel Transactions.**—Two hours a week throughout the year.  
PROFESSOR LATTY
- Possessory Estates.**—Two hours a week, second semester.  
PROFESSOR BOLICH

**Conveyancing.**—Three hours a week, first semester. PROFESSOR BOLICH

**Landlord and Tenant.**—Two hours a week, first semester.  
PROFESSOR BOLICH

**Future Interests.**—Three hours a week, second semester.  
PROFESSOR BOLICH

**Wills and Administration of Estates.**—Three hours a week, second semester. PROFESSOR McDERMOTT

**Trusts.**—Three hours a week, second semester. PROFESSOR LOWNDES

#### 4. PUBLIC LAW COURSES

**Criminal Law and Its Administration.**—Two hours a week throughout the year. ASSISTANT PROFESSOR SANDERS

**Constitutional Law.**—Two hours a week, first semester; three hours, second semester. PROFESSOR MAGGS

**Administrative Law.**—Two hours a week, first semester.  
PROFESSOR MAGGS

**Labor Law.**—Two hours a week, second semester.  
ASSISTANT PROFESSOR SANDERS

**Legislation.**—Two hours a week, first semester. PROFESSOR McDERMOTT

**Legislation Seminar.**—Two hours a week, second semester.  
PROFESSOR McDERMOTT

**Municipal Corporations.**—Two hours a week, first semester.  
PROFESSOR McDERMOTT

**Public Utilities.**—Three hours a week, first semester.  
[Not offered in 1939-40.]

**Regulation of Business.**—Three hours a week, second semester.  
PROFESSOR CAVERS

**Taxation.**—Two hours a week throughout the year. PROFESSOR LOWNDES

#### 5. JURISPRUDENCE COURSES

**Readings in Jurisprudence.**—Two credit hours. A one-hour discussion meeting will be held each week. First semester. PROFESSOR FULLER

**Legal History.**—Three credit hours. First semester. PROFESSOR BOLICH

**Seminar in Legal History.**—Hours and credit to be arranged with the instructor upon approval of said Committee. Second semester.  
PROFESSOR BOLICH

**Roman Law: Comparative Law of Obligations.**—Two hours a week, second semester. PROFESSOR FULLER

#### 6. PROCEDURE AND PRACTICE COURSES

**Introduction to Procedure.**—Two hours a week, first semester.  
PROFESSOR POTEAT

**Pleading.**—Two hours a week, first semester; one hour a week, second semester. PROFESSOR BRYSON

**Practice.**—Two hours a week throughout the year. PROFESSOR BRYSON

**Evidence.**—Two hours a week throughout the year.  
PROFESSOR McDERMOTT

**Federal Jurisdiction and Procedure.**—Two hours a week, second semester.  
PROFESSOR POTEAT

**Legal Ethics.**—One hour a week, first semester. PROFESSOR BRADWAY

**Legal Aid Clinic.**—Two hours a week throughout the year.  
PROFESSOR BRADWAY

**Bar Association Activities.**—Not for credit. PROFESSOR HORACK

#### 7. LEGAL RESEARCH AND WRITING

**Legal Bibliography.**—One hour a week, first semester. MR. ROALFE

**Research and Briefing.**—One hour throughout the year, in two sections.  
PROFESSOR LATTY

**Current Decisions I.**—One hour throughout the year.  
PROFESSOR CAVERS AND THE STAFF

**Current Decisions II.**—One hour throughout the year.  
PROFESSOR CAVERS AND THE STAFF

**Student Editorial Work.**—Credit for this work will be given in Current Decisions.  
PROFESSOR CAVERS

# THE SCHOOL OF MEDICINE

1938-1939

ANNOUNCEMENTS FOR 1939-1940

## CALENDAR

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1939

- Jan. 3. Tuesday—Registration of students, and Winter Quarter begins.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Registration of students, and Spring Quarter begins.  
April 10. Easter Monday: a holiday.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.  
June 19. Monday—Registration of students, and Summer Quarter begins (Junior-Senior students).  
July 4. Tuesday—Independence Day: a holiday.  
Sept. 2. Saturday—Summer Quarter ends.  
Sept. 28. Thursday—Registration of students, and Autumn Quarter begins.  
Nov. 30-Dec. 3. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 16. Saturday—Autumn Quarter ends.

1940

- Jan. 2. Tuesday—Registration of students, and Winter Quarter begins.  
March 16. Saturday—Winter Quarter ends.  
March 25. Easter Monday: a holiday.  
March 26. Tuesday—Registration of students, and Spring Quarter begins.  
June 3. Monday—Commencement.  
June 8. Saturday—Spring Quarter ends.  
June 17. Monday—Registration of students, and Summer Quarter begins (Junior-Senior students).  
July 4. Thursday—Independence Day: a holiday.  
Aug. 31. Saturday—Summer Quarter ends.  
Sept. 26. Thursday—Registration of students, and Autumn Quarter begins.  
Nov. 28-Dec. 1. Thursday-Sunday—Thanksgiving Holidays.  
Dec. 14. Saturday—Autumn Quarter ends.



## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

FRANK CLYDE BROWN, A.B., A.M., Ph.D.  
*Comptroller*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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WILBURT CORNELL DAVISON, A.B., B.A., B.Sc., M.A., D.Sc., M.D.  
*Dean of the School of Medicine*

HELEN I. STOCKSDALE  
*Recorder of the School of Medicine*

## GENERAL STATEMENT

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Duke University School of Medicine and Duke Hospital were established in 1925, through the munificent gift of the late James B. Duke. The *School of Medicine* has been planned to insure the greatest correlation between the various departments. These facilities are available also for students who are studying for degrees other than that of Doctor of Medicine. The School of Medicine has been approved as Class A by the American Medical Association and also is a member of the Association of the American Medical Colleges. On September 29, 1938, two hundred and fifty-seven students were enrolled.

### FACILITIES OF THE HOSPITAL

Duke Hospital has every modern convenience for the diagnosis, proper care, welfare and comfort of the patients, both private and charity, white and colored, whether they come from Durham or from a distance. It has 456 beds, including 50 bassinets for newly born infants. *Medicine*, including dermatology, neurology and psychiatry, has 111 ward beds; *surgery*, including urology, otolaryngology, ophthalmology and orthopaedics, 105 ward beds; *obstetrics*, including *gynecology*, 56, and 50 bassinets; and *pediatrics*, 52. There are 82 private rooms and semi-private cubicles, 7 operating rooms, 4 obstetrics delivery rooms, and accommodations for a resident staff of 71. Offices and examining rooms for the members of the Medical Faculty are located in the Hospital. The Hospital has been approved for internship and residencies by the Council on Medical Education and Hospitals of the American Medical Association.

Duke Hospital and its Public Dispensary were opened for patients on July 21, 1930. One hundred and fourteen thousand individuals have been examined, diagnosed, and treated up to January 1, 1939. Fifteen per cent of the patients come from within a radius of twenty miles, the remaining 85 per cent come from over 98 of the 100 counties in North Carolina and from 34 other states. The average distance traveled by the patient is more than 70 miles.

**PUBLIC WARD PATIENTS.** Duke Hospital cannot give charity treatment to all who apply; therefore patients whose incomes are less than \$15 per week should apply to the Public Dispensary Division of the Duke Clinic on the days and hours listed below.

**PRIVATE PATIENTS.** Patients who can pay the ward and private rates may at any time, through their family physicians, in consultation with any member of the Hospital Staff, make reservations by telephoning to the Admitting Office. Appointments for private examinations and treatments may be made in advance by telephoning to members of the Hospital Staff or to the Private Diagnostic Division of the Duke Clinic.

Every effort is being made to co-operate with the medical profession, and patients are asked to return to the physicians who referred them to the Hospital and Clinic.

### **SCHOOL OF NURSING**

The next class of students will be admitted to the Duke University School of Nursing on September 26, 1939, but applications will be considered at any time after January 1, 1939. The entrance requirements are intelligence, character, and graduation from an acceptable high school. In 1940 one year of college work in addition will be required, and in 1941 two years. For details, the Bulletin of the School of Nursing should be consulted. The course leading to the Diploma of Graduate Nurse consists of three years of eleven months each. The tuition is \$100 per year. Application forms and bulletins may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C.

Duke University grants the degree of Bachelor of Science in Nursing to women who have completed successfully two years of college work (60 semester hours) in Duke University or another approved university or college, in addition to the three-year course in the Duke University School of Nursing, provided they have had certain specified college courses. The sixty semester hours of college work may at present be completed either before or after the three-year course in the School of Nursing but not during it. Students entering in 1940 must complete one year, and those entering in 1941 must complete both years before admission to the School of Nursing. For details the Bulletin of the School of Nursing should be consulted.

### **SCHOOL OF DIETETICS**

In addition to the training of medical students and nurses in dietetics, six student dietitians may be admitted to the School of Dietetics and given the certificate of graduate dietitian after the successful completion of one year. The entrance requirements are a Bachelor's degree from an approved university or college, with majors in nutrition and institutional management, and the courses in chemistry, biology, social science and education recommended by the American Dietetic Association. The course for student dietitians provides instruction in all phases of hospital and institutional dietetics, including experience from the buying and storage of food to its service to the patient according to the doctor's orders. In addition, the student dietitians are required to complete the courses in biochemistry, nutrition and selected portions of physiology as given to the medical students.

More detailed information and application blanks may be obtained from the Professor of Dietetics, Duke University School of Dietetics, Durham, N. C. The course starts the first Monday in September, but applications for appointments should be made before February 1. No tuition is charged, but a registration fee of \$10 is payable at the time of appointment; maintenance is provided.

### **Hospital Administration**

Three or four internships in hospital administration are available to university graduates, whose character, tact, and ability for leadership are good, and whose academic standing is high. These internships are of three years' duration and pay a small salary in addition to room, board, and laundry. Vacations of one month are allowed at the beginning of the second and third years of internship.

The instruction is practical rather than theoretical in emphasis. The internes are rotated through five different assistant administrative positions in the Hospital. There is also a weekly seminar lasting two hours. Further information may be obtained by writing to the Superintendent, Duke Hospital, Durham, N. C.

### **ANESTHESIA**

Duke Hospital offers to registered nurses from accredited schools of nursing a twelve months' course in anesthesia, which includes the theory and practice of anesthesia. The tuition fee of \$100 covers all expenses of the course, including maintenance. Applications may be sent to Miss Mary Muller, Duke Hospital, Durham, N. C.

### **MEDICAL SOCIAL SERVICE**

Case work service is offered to patients referred by physicians within the Hospital, by outside social service agencies, or upon the patient's own application. Assistance and advice in connection with the problems presented are available to the members of the Staff and referring agencies. The division also provides lectures, consultations and discussions for students of medicine and nursing, and serves as an agency for supervised field work experience for students of the graduate school of the University of North Carolina. Further information concerning training for advanced students may be obtained from the Social Service Division, Duke Hospital, Durham, N. C.

### **RECORD LIBRARY**

A course for the training of Medical Records Librarians has been instituted at Duke Hospital. This course, which has been given full approval by the American Association of Medical Records Librarians, includes all details of the theory and practice of clinical record library methods. The length of the training is eleven months. The tuition fee is \$100 and does not include maintenance.

### **MEDICAL SECRETARIAL SCHOOL**

Duke Hospital offers a course, of approximately four months, for medical secretaries, which gives them thorough training in the technicalities of medical secretarial work, medical terminology, medical shorthand, and ediphone transcription. The completion of a secretarial or business course is required for admission. A small remuneration is given. After

this medical secretarial training, those who have proved capable are sometimes placed in positions in the Hospital as vacancies occur.

### POSTGRADUATE STUDY

The School of Medicine is not limited to the training of its own students and staff, but extends to the members of the medical profession the benefit of everything it has. Graduates in medicine are welcomed especially at the various clinics and demonstrations in medicine, surgery, obstetrics, and other specialties.

### INTERNESHIIPS AND RESIDENCIES

Interneshiips of one year's duration with room, board, laundry, and uniforms furnished, but without salary, are available in *surgery* (including general surgery, urology, and orthopaedics), in *orthopaedics*, in *urology*, in *otolaryngology*, in *dentistry*, in *obstetrics* and *gynecology*, in *endocrinology*, in *pediatrics*, and in *pathology*, commencing each July and September.

After the completion of an interneshiip in Duke Hospital or in another acceptable hospital, a certain number may be appointed as assistant residents in medicine, surgery, obstetrics and gynecology, pediatrics, neuropsychiatry, orthopaedics, urology, otolaryngology, roentgenology, pathology, biochemistry, or the Student Health Service, or as fellows of the Private Diagnostic Clinic, at a salary of \$250 to \$500 per year with maintenance, and eventually may be promoted to the residency in the various departments or subdepartments of the Hospital at an annual salary of \$500 to \$1,000 with maintenance. Applications should be made to the head of the department concerned.

### LIBRARY

In addition to the general library of Duke University and the departmental libraries of biology, chemistry, physics, etc., which have 491,252 volumes available for medical students, Duke Hospital Library contains 35,828 volumes of American and foreign medical literature and subscribes to 342 current American and foreign medical and other scientific journals. These books and journals are available daily from 8:20 A.M. to 11:00 P.M. for the students, nurses, staff, and medical profession.

### REQUIREMENTS FOR ADMISSION

*Intelligence and character are the essential qualifications for admission.*

In addition, each candidate must have the following preparation, which includes the minimal requirements for Class A medical schools:

1. At least three years of college work (90 semester hours), including:
2. *Biology*: At least one year (12 semester hours, one half of which must be laboratory work, and must include training in embryology). A course in comparative anatomy also is recommended.



3. *Chemistry*: At least two years (10 semester hours of inorganic chemistry including short or preliminary courses in qualitative and quantitative analysis, and 6 semester hours of organic chemistry; one half of each course must be laboratory work). These represent the minimal requirements in chemistry. Additional courses in analytical and physical chemistry are desirable. Also see Biochemistry, page 227.

4. *Physics*: At least one year (10 semester hours, one half of which must be laboratory work).

5. *English*: At least two years (12 semester hours).

6. *Mathematics*: At least one year (6 semester hours; a working knowledge of logarithms is essential, and one of calculus is desirable).

7. *German*: A reading knowledge of scientific German is highly desirable.

8. Applicants are required to take the aptitude tests of the Association of American Medical Colleges unless specifically excused by the School. These tests are given at most of the colleges and universities in December.

Selection is based on the *quality* rather than the *quantity* of preparation.

#### REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN MEDICINE

After completion of ninety semester hours in Duke University or other approved university or college, and six quarters in the Duke University School of Medicine, Duke University, on the recommendation of the Executive Committee, grants the degree of Bachelor of Science in Medicine to medical students who have completed creditable investigative work, prepared an acceptable report of the investigation, and passed an examination upon the subject of the investigation before an advisory committee. Students who elect to undertake work toward this degree must obtain written permission from the Executive Committee after approval of their program by the head of the department in which the work is to be done. No credit toward this degree is given for additional college work, and students who have a Bachelor's degree are not eligible. but all students in good standing are encouraged to undertake such investigative work as they may elect when approved by the Curriculum Committee and the head of the department in which they wish to work.

#### REQUIREMENTS FOR THE DEGREE OF DOCTOR OF MEDICINE

A certificate is conferred on those who, after fulfilling all the requirements for entrance, have completed, to the satisfaction of the Executive Committee, the twelve quarters of the curriculum of the School of Medicine. The diploma for the degree of Doctor of Medicine is given after the completion of two years in satisfactory training in a hospital or laboratory acceptable to the Executive Committee.



## DEPARTMENTS OF INSTRUCTION

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### Anatomy

Five days per week during the Autumn Quarter, and two days per week during the Winter Quarter of the first year are devoted to the courses of instruction in gross human anatomy, histology, and neurology *required* of all entering students. Further work in these subjects and advanced studies in various other branches of anatomy may be undertaken during the student's free time. Prospective candidates for *elective* work should discuss their wants with the member of the Staff in charge of the particular field in which work is requested, because only a small number can be accommodated in each group. A few properly qualified students may be permitted to undertake original research under the direction of various members of the Staff.

### Biochemistry

The *required* course in general biochemistry for first-year students is given in the Autumn and Winter Quarters. One morning each week in the Autumn Quarter is devoted, in discussion groups, to the correlation of the fundamental facts and theories of physical and organic chemistry with the chemistry of living organisms. In the Winter Quarter three lectures and four laboratory periods per week, supplemented by systematic reading and weekly conferences in small groups, are devoted to a more intensive study of the chemistry of the physiological processes of digestion and absorption, circulation and respiration, acid-base and salt equilibrium metabolism including quantitative urine and blood analyses.

Since the success of the students in this course is largely determined by the adequacy and ready availability of their premedical training, it is urged that all students review the fundamental laws, theories, and facts of chemistry before the beginning of the course. A circular outlining the topics requiring special attention is sent to all students upon admission. Additional copies of the circular may be obtained from the Dean's Office. An examination to test the state of preparation of the student is given in the beginning of the course in biochemistry.

*Electives.* In connection with the course given in the Spring Quarter for second-year students a survey of *pathological and clinical chemistry* is presented. In this course are covered abnormalities of: Protein, fat and carbohydrate metabolism, acid-base regulation, salt and water distribution, nitrogen retention, calcium and phosphorus metabolism, blood and derived bile pigments. The discussion of these topics is based upon case histories, including the records of the Clinical Chemical Laboratory of the Hospital.

*Biochemical Research.* The facilities of the department, including various types of research equipment and the clinical material of the blood

chemistry laboratory, are available to properly qualified students for independent or supervised investigations. Chemical investigations of problems in biochemistry or in conjunction with the clinical departments and the Department of Pathology may be carried on.

*Seminar in Toxicology.* A round-table discussion of the homicidal, suicidal and industrial poisons, alcoholism, etc. Autumn or Spring Quarters by arrangement.

*Laboratory Detection of Common Poisons.* A laboratory course in the properties, detection, and identification of the common poisons. Consideration is given to the types of material to be examined, legal precautions to be taken and interpretation of the findings. Autumn or Spring Quarters by arrangement.

*Chemistry of the Colloidal State.* A two-hour seminar is given weekly throughout the autumn, winter, and spring quarters.

### Physiology, Pharmacology, and Nutrition

The *required* courses consist of (a) a lecture course in physiology, (b) a lecture course in pharmacology, (c) a lecture course on the elements of nutrition, supplemented by demonstrations of some biological and chemical methods employed in nutrition studies, (d) a laboratory course in physiology and pharmacology, and (e) a seminar in which the problems arising in the laboratory and in the student's reading are discussed.

*Elective* courses covering particular aspects of these subjects, including pathological physiology and research in special fields, are available.

*Research.* A few properly qualified students are permitted to undertake original research in physiology, pharmacology, or nutrition under the direction of various members of the Staff.

### Pathology

The *required* course in general pathology for second-year students is given in the Autumn and Winter Quarters. The class is divided into small groups, one instructor and an assistant being assigned to each group. For the purpose of teaching the gross pathological alterations of tissue, the museum material, which consists of complete cases preserved as units, has been classified into well-organized groups, such as obstructions, diseases due to animal parasites, tumors, etc., each group of materials being placed in a separate laboratory. The various student groups work with these groups of material in rotation. The microscopic aspects of pathological processes are studied by the students at the same time the gross pathological features of the disease are being considered. Physiological, chemical and bacteriological phases of the various disease processes are presented to the student by constant reference to the autopsy protocols and clinical studies of the cases which are being considered by the groups, and by visits to the Hospital wards. Once each week a clinic is presented for the class; the subjects of the clinics are cases from the Hospital which illustrate pathological processes being currently studied. Lectures on general subjects of wide application are given in co-ordination with the museum case studies. Attendance at autopsies is required of the students

of the second year, the class being divided into small groups which are called in turn. The group members are required to follow all studies of the cases which they see and to prepare their own complete records. Cases thus prepared are presented by the students before the entire class under the direction of the Staff.

*Elective* courses in pathology in the Spring Quarter are available for a limited number of students who have completed the course in general pathology. Research facilities are provided in the department for students who are competent to undertake investigation.

On Wednesdays at 5 P.M., during the Autumn, Winter, and Spring Quarters, a clinical-pathological conference is held in co-operation with the staffs of the clinical departments. While this conference is designed especially for the Hospital Staff, it is open to all members of the medical profession and students of medicine. Students of the second, third, and fourth years routinely attend this conference. A gross diagnostic clinical-pathological conference on current autopsies is held weekly in collaboration with the clinical departments. This conference is required of the students of the third and fourth years.

#### **Bacteriology and Parasitology**

*Bacteriology, Mycology, Immunology, and Parasitology.* The required course is given in the Autumn Quarter of the second year. An intensive study is made of the common bacteria, fungi, and parasites which cause disease in man. The scope of the laboratory course is reasonably wide and acquaints the student with all the methods and procedures employed in bacteriological laboratories. Most of the lecture time is devoted to the immunological and epidemiological aspects of infection. We are especially interested in the student's having a clear conception of: (1) how organisms gain entrance to the body, (2) the type of poisons which they produce, (3) the nature of immune bodies which are produced by the host, and (4) the methods of preventing the disease by active and passive immunization. *Research Bacteriology.* Opportunities for original investigations are afforded a few specially qualified students. *Clinical Bacteriology.* During their clinical clerkships on medicine (one quarter each for Junior and Senior classes), the students may perform the routine and special bacteriological work for the patients assigned to them on the teaching service, under the direction of the Department of Bacteriology and in parallel with the Biological Division of the medical clinics.

#### **Medicine**

*Clinical Microscopy* is given in the Winter Quarter of the second year. The course includes the essentials of hematology and the examination of fresh material, such as urine, stools, spinal fluid, sputum, transudates and exudates. The most important parasites of man are studied by the use of fresh and museum material. Second-year and Senior students are given opportunities for special work and for investigation.

*Physical Diagnosis and Introduction to Clinical Medicine.* This course, in the Spring Quarter of the second year, consists of instruction in his-

tory taking, physical examination, and the application of the preclinical sciences to the interpretation of findings. All departments, preclinical and clinical, including the specialties, participate. The importance of co-operation between clinic and laboratory is emphasized, and the preclinical departments extend the teaching of their particular branches in correlation with other preclinical and clinical studies. In this manner the course serves as an introduction to clinical medicine. The class is divided into sections of not more than ten students, and each student is given individual instruction.

*Junior Medicine.* Junior students are assigned in small groups for one quarter to the medical wards as clinical clerks. Teaching rounds are held from 8:30 to 9:30 A.M., on Mondays, Wednesdays, and Fridays. During the Autumn, Winter and Spring Quarters, medical clinics are given on Mondays, Wednesdays, and Saturdays at 11:30 A.M., and on Wednesdays, during the Summer Quarter.

*Senior Medicine.* Senior students are assigned for one quarter to the Dispensary as clinical clerks. Teaching rounds are held from 9:30 to 11:30 A.M. on Mondays and Fridays. Seniors attend medical clinics on Mondays, Wednesdays, and Saturdays at 11:30 A.M.

*Dermatology and Syphilology.* Instruction is offered each quarter to Senior students consisting of lectures, seminars, and study and treatment of patients.

*Neuropsychiatry.* Instruction is started in the second year with a course that covers psychobiology and general psychopathology, and which serves as a bridge between the student's work in academic psychology and clinical neuropsychiatry. This course is concerned with the modern conception of the personality, its neurophysiological basis, growth and development, and traits, normal and abnormal. The problems of intelligence, intelligence testing, and mental deficiency are discussed. The students are trained in neuropsychiatric method and examination, and they make a psychiatric or personality make-up examination upon themselves. Instruction in neuropsychiatry for Junior and Senior students is continued by weekly lecture-clinics during the Autumn, Winter, and Spring Quarters. In the Autumn Quarter the emphasis is on neurology; in the Winter and Spring Quarters the clinical study of psychiatry is developed. Mental disorders in general are considered, and the major psychoses are specifically outlined. The didactic work in neuropsychiatry is supplemented by clinics and by the student's actual experience in handling such psychiatric problems as occur on the wards and in the Public Dispensary of the Hospital. The problems of the psychoneuroses, psychotherapy, and mental hygiene are emphasized. In addition, clinics are held in the North Carolina State Hospital, Raleigh, N. C. Special and elective work in psychiatry is offered to students who are especially interested. Before graduation, it is sought to give the student a workable conception of the individual as a whole, the psychobiological unit, that may be applied in practice.



### Surgery

*General Surgery.* In the Spring Quarter the second-year students, during their course in physical diagnosis, attend clinics and demonstrations arranged to familiarize them with the technique of examinations and the diagnostic procedures used in general surgery and the surgical specialties. Emphasis is placed on the more practical and commonly used methods.

During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M. on Tuesdays and Fridays, and during the Autumn, Winter and Spring Quarters at 9:30 A.M. on Saturdays, clinics in surgery and the surgical specialties are held for Junior and Senior students. The *Junior* students, during their surgical quarter, attend ward rounds in surgery from 8:30 to 10:30 A.M., on Mondays, Wednesdays, and Fridays, act as clinical clerks on the wards, avail themselves of the electives offered and attend the regular clinics. The surgical group in the *Senior* year attends ward rounds from 8:30 to 10:30 A.M. on Mondays, Wednesdays, and Fridays, the regular clinics and the electives offered, and assists in the surgical dispensary in the afternoons. Individuals may take any of the electives offered.

An *elective* course in operative surgery is given in the experimental laboratory during the Autumn and Spring Quarters. This course is scheduled from 8:30 to 11:30 A.M. on Tuesdays and Thursdays. The group is divided into operating teams, and each student takes his turn serving as the operator, first assistant, and anesthetist. During the Winter Quarter special work in experimental surgery may be arranged by conference with the instructor. The purpose of this course is to teach the basic principles of aseptic surgery as well as of anesthesia. Incidentally the student performs a number of operations illustrating various types of surgery, the operative procedures being of gradually increasing difficulty.

An *elective* course in emergency and traumatic surgery is given each quarter. In groups of two, each week, Junior or Senior students are on call in the emergency room for all accidents and emergencies. Opportunity is given to observe and assist in the treatment of accident cases and in the diagnosis of acute abdominal emergencies. Lectures, twice each week, during the Winter Quarter, supplement this course.

An *elective* course in anesthesia is open to four properly qualified Senior students, each quarter. Students meet the anesthetist each morning in the operating room and observe and administer anesthetics under supervision.

*Ophthalmological Division.* During the Spring Quarter second-year students receive instruction in elementary ophthalmology. During the Junior obstetrical quarter the students are assigned to the ophthalmological clinic on Tuesday and Friday afternoons for five and one-half weeks, and assist in the study and treatment of eye diseases. Especial emphasis is placed on the underlying medical and surgical conditions. Each student follows throughout his time in the clinic all patients assigned to him. For those who manifest an unusual interest in this specialty,

provision will be made for more advanced work. An elective course in diseases of the eye, including refraction and the use of diagnostic instruments, is given each quarter on Thursday morning along with a similar elective in otolaryngology.

*Orthopaedic Division.* In the Spring Quarter of the second year an introductory course in orthopaedics is given. During the surgical quarters the Junior and Senior students attend ward rounds at 8:30 A.M. on Monday. Clinics are held during the Autumn Quarter on Friday at 11:30 A.M. for Juniors and Seniors. Students in their Senior Surgical Quarter are assigned in rotation to the orthopaedic dispensary which is held each afternoon from Monday to Friday inclusive. Special work may be arranged for students who wish to do research or experimental work. At 813 Fifth Street, the orthopaedic department conducts a special clinic for the treatment of cerebral palsy. The clinic has a bed capacity of twelve and is staffed with a specially trained physiotherapist, a schoolteacher, and an administrative officer. Interested students are welcomed at any time. An elective course in orthopaedic pathology is offered for one hour per week during the Winter Quarter for Juniors and Seniors. During the surgical quarters the Junior and Senior students attend fracture ward rounds at 8:30 A.M. on Friday. An elective course in the treatment of fractures is offered during the Junior and Senior surgical quarters on Friday morning from 9:30 to 11:30. In this course the students get practical training in the application of plaster-of-Paris cast and in the follow-up treatment of fractures. Students are given the opportunity of attending the North Carolina Orthopaedic Hospital Clinic at Goldsboro the third Thursday of each month. They may also attend similar clinics held in Lumberton the first Friday of each month and at Elizabeth City the last Tuesday of each month and in Tarboro the Monday before the last Tuesday of each month.

*Otolaryngological Division.* An introductory course of instruction in the use of otolaryngological instruments, with a review of normal anatomy, is given to second-year students in the Spring Quarter. Clinics on Fridays at 11:30 A.M. during the Spring Quarter are given to Junior and Senior students. Junior students during their obstetrical quarter spend two afternoons for five and one-half weeks in the otolaryngological dispensary. There are no formal teaching otolaryngological ward rounds, but Junior and Senior students are assigned to patients during the surgical quarter. Individual instruction is given the student by the various members of the Staff. An *elective* course on the anatomy, physiology, and diseases of the ear, nose and throat has been arranged for those desiring it. An *elective* course on diseases of the ear, nose and throat, including X-ray interpretation and the use of diagnostic instruments is given on Thursday morning of each quarter along with a similar elective in ophthalmology.

*Urological Division.* In the Spring Quarter, second-year students are given a course of lectures and practical demonstrations in urological physical diagnosis in the normal individual. Ward rounds on urological patients are given every Saturday at 8:30 A.M., throughout the year,



which Junior students in their surgical quarter, and the Senior surgical group are required to attend. During each quarter, small groups are selected from the Senior surgical group of students and assigned in rotation to the urological dispensary every afternoon. Here, under proper supervision, they study patients and given recommended treatment. During one and a third quarters of the year urological lectures are given on Fridays at 11:30 A.M. for the Junior and Senior classes. These lectures deal with the affections of the male and female urinary tract and of the male genital tract. Clinics for urethroscopic and cystoscopic investigation and the more technical methods of urological diagnosis and treatment are held Monday, Wednesday, and Thursday from 1:30 to 5:00 P.M. and Tuesdays and Thursdays from 9:30 A.M. to 12:30 P.M., and from 1:00 to 5:00 P.M. throughout the year. X-ray conferences on all urological cases are held Tuesday, Thursday, and Saturday mornings from 8:30 to 9:30, and are followed by Staff rounds. Three Senior students may select one of these cystoscopic clinics, X-ray conferences, and Staff rounds as an elective. *The Urologic Journal Club* meets each Monday from five to six-thirty o'clock, and the members of the Staff review their respectively assigned journals. Interested students are welcomed.

*Neuro-surgical Division.* During the Autumn, Winter, Spring and Summer Quarters, at 11:30 A.M., on every third Tuesday, neuro-surgical amphitheater clinics are held for Junior and Senior students. In these clinics, the general principles of neuro-surgical diagnosis and treatment are discussed. During all four quarters, weekly ward rounds are held at 8:30 A.M. on Wednesdays for the surgical group in the Senior year. Emphasis is placed in these smaller clinics upon the recognition of neuro-surgical problems, followed by observation of the operating and post-operative procedures. Weekly X-ray and pathological conferences are held which may be attended by interested individuals.

The *Tumor Clinic* of the Duke Hospital was organized in 1935 for the study and student teaching of malignant disease. It is staffed by a surgeon, radiologist, and pathologist, who attend all clinics, and consultants in the various specialties are on the consulting staff to be called when a patient with a malignant tumor in their field is registered in the clinic. Students in their fourth-year surgical quarter see all cases registered in the clinic and work them up and have available for teaching not only the clinical background of the Staff but also pathological sections of tumors under the study of the pathologists. From August, 1937, to August, 1938, there were 720 old patients and 455 new patients seen in the Tumor Clinic.

*Dentistry.* Second-year students, in the Spring Quarter, are instructed in the principles of dentistry.

#### Roentgenology

A course with especial reference to differential diagnosis and X-ray and radium therapy is given during the senior surgical quarter. Instruction in radium and X-ray therapy is given the Senior students each quarter in the tumor clinic.

An elective course in X-ray differential diagnosis is given to a limited number of students each quarter.

### Obstetrics and Gynecology

*Second-year* students receive seventeen hours of instruction in the fundamentals of obstetrics and gynecology during their course in physical diagnosis in the Spring Quarter. Clinics and demonstrations for Junior and Senior students are held on Saturdays at 10:30 A.M. during the Autumn, Winter, and Spring Quarters, and on Mondays at 11:30 A.M. in the Summer Quarters. During one quarter of the *Junior* year each group of students attends ward rounds at 8:30 A.M. on Mondays, Wednesdays, and Saturdays, and the Public Dispensary at 1:30 P.M. daily, except Saturdays, Sundays, and holidays for eleven weeks. They also attend an endocrine clinic once a week for eleven weeks during the Junior year. The students also spend part of each day on the wards. *Senior* students, during their surgical quarter, have ward rounds on obstetrics and gynecology on Saturdays at 8:30 A.M. Each *Senior* student, during his specialties quarter, is required to spend two weeks on service with the Outside Obstetrics Training Group at Charlotte, North Carolina. This group is active in the antepartum care, in the delivery of the patients, and in the postpartum care of patients registered by the Maternity Clinic of that city. The group is under the direction of a trained obstetrician.

*Elective* courses in the diagnosis and treatment of obstetrics and gynecologic conditions are offered for Junior and Senior students.

### Pediatrics

Each *second-year* student receives nine hours of instruction in elementary pediatrics during the course in physical diagnosis in the Spring Quarter. *Junior* and *Senior* students, during their medical quarters, have pediatric ward rounds on Saturdays from 8:30 to 9:30 A.M. The *Senior* students are divided into three groups, each of which spends one quarter in pediatrics. During this quarter, they are assigned daily as clinical clerks on the children's ward, nursery and pediatric dispensary, attend ward rounds, at 8:30 A.M. on Mondays, Wednesdays, and Fridays, are instructed in the practical nursing of infants by Miss Sherwood on Fridays at 10:30 A.M., assist in the treatment of pediatric patients in the syphilis clinic on Thursdays at 9 A.M., and are taught the preparation of diets for infants and children by the Professor of Dietetics. Each student attends six infant feeding clinics during this quarter. On Thursdays at 11:30 A.M., the Junior and Senior students attend demonstrations at which the preclinical basis, as well as the clinical aspects, of disease are emphasized. *Elective courses: Senior students* may attend the infant feeding clinic on Tuesdays at 10 A.M., do research work, or assist in pediatric ward or dispensary one or more mornings per week, according to the time at their disposal.

### Legal Medicine and Toxicology

This course embraces a discussion of the relation of physicians to legal criminal procedures; jurisdiction of the coroner and medical ex-

aminer; laws governing the dead human body; personal identity of the living and the dead; the legal autopsy; traumatic injuries and fractures; rape; abortion; asphyxial death; homicidal, suicidal, and industrial poisoning; alcoholism; the examination of blood, stains, fibers, and the detection of malingering. The course is open to students in the seventh to twelfth quarters and is given in alternate years. To be given in 1938-39. Discussions of medico-legal problems for the House Staff and Senior students, and joint conferences of the medical and law students also are held.

### Preventive Medicine and Public Health

*Public Health and Hygiene.* A lecture course is given designed to acquaint second-year students with general environmental sanitation including sewage disposal, water supplies, milk and food for rural and urban communities. Vital statistics, public health regulations, and various official public health organizations are discussed. Exercises in the epidemiology of several diseases are introduced to give the student a broad view of disease and its prevention. *Field Demonstrations.* Visits for observation and instruction are made to State, County and City health departments, infant and school hygiene clinics, dairies, public water supplies, sewage disposal plants and industrial establishments. Seminars are held in which the students discuss the various problems encountered in their field experience. *Preventive Medicine.* A series of lectures and exercises intended to provide Senior students with the preventive point of view in the practice of medicine. The etiology, modes of transmission, epidemiology, and the prevention of communicable diseases are discussed. The problems of infant and maternal hygiene, occupational diseases and the deficiency diseases are considered. Emphasis is placed upon the relationship of the private practitioner of medicine to the public health program. *A Laboratory Course* is given in the Autumn Quarter of the second year by the Department of Bacteriology, and consists of the identification and virulence testing of diphtheria cultures, the isolation of stool, throat and blood organisms, the practical examination of water, Schick, Dick and tuberculin tests, and vaccination against typhoid and smallpox. *Elective:* Through the co-operation of several city and county health officers, students may spend one or more weeks in observing and assisting in the operation of these public health units.

### CURRICULUM OF THE SCHOOL OF MEDICINE

The usual four medical school years of thirty-three weeks each may be condensed into three and one quarter calendar years. In the preclinical subjects three terms, and in the clinical subjects four terms, each of eleven weeks, are given during the year, and a certificate is granted after the satisfactory completion of twelve terms. These may be taken consecutively (certificate in three and one quarter years) if the student's previous work has been outstanding and if he has been given permission by the Curriculum Committee; or three terms may be taken each year (certificate in four years). Such a curriculum will affect in no way the

course at any other medical school. If students who have received their first two years of training at other medical schools wish to spend their clinical years at the Duke University School of Medicine, they are eligible in October for the seventh quarter, which corresponds to the beginning of the usual Junior Class.

Every effort is made to emphasize the close relationship of preclinical and clinical instruction. Members of the Clinical Staff assist in the teaching of preclinical subjects and demonstrate, to the students of the first two years, patients whose conditions illustrate the subjects being taught. Thus, from the student's first days, he is impressed with the interdependence of all branches of the medical science. During the sixth quarter every department of the School participates in a correlation course, which, combined with the teaching of physical diagnosis, serves to give the student just entering his clinical years a co-ordinated introduction to medicine in all its aspects. From the seventh to twelfth quarters, pre-clinical instructors assist the Clinical Staff in presenting the underlying basis of disease.

Eighteen per cent of the time in this curriculum is free for elective work or anything else which the student wishes to do. No credits are given for specific courses during this free time. The opportunity merely is provided for each student, on his own initiative, to obtain the additional training which he may feel to be necessary or desirable. It is hoped that many of the students will migrate to other medical schools in this country or abroad for one quarter, a practice which is encouraged. The students also may utilize their free time in elective courses in pre-clinical and clinical departments and may pursue independent work in any subject or may do research work. The elective courses have been organized for small groups and will be repeated, if necessary, in one or more quarters. Students who wish to study during the Summer Quarter, either here or elsewhere, to spend one or more quarters at other medical schools or to substitute a program different from that listed below, must obtain permission, in advance, from the Curriculum Committee.

#### CURRICULUM OF FOUR QUARTERS OF ELEVEN WEEKS EACH

The hours for these courses will be posted on the bulletin board.

#### FIRST YEAR

##### AUTUMN QUARTER (1st) :

September 28 to December 16, 1939.

Anatomy (including histology and neuro-anatomy) .....	385 Hours
Biochemistry .....	18 Hours
Free time .....	26 Hours

##### WINTER QUARTER (2d) :

January 3 to March 18, 1939.

Anatomy (including histology and neuro-anatomy) .....	165 Hours
Biochemistry .....	176 Hours
Free time .....	88 Hours



## SPRING QUARTER (3d) :

March 27 to June 10, 1939.

Physiology and pharmacology, including nutrition .....	330 Hours
Free time .....	99 Hours

## SECOND YEAR

## AUTUMN QUARTER (4th) :

September 28 to December 16, 1939.

Pathology .....	198 Hours
Bacteriology and Parasitology .....	150 Hours
Introduction to Psychiatry .....	11 Hours
Free time .....	70 Hours

## WINTER QUARTER (5th) :

January 3 to March 18, 1939.

Pathology .....	183 Hours
Clinical microscopy .....	110 Hours
Public health and hygiene .....	37 Hours
Free time .....	99 Hours

## SPRING QUARTER (6th) :

March 27 to June 10, 1939.

Physical diagnosis and introduction to clinical medicine .....	300 Hours
Free time .....	129 Hours

## JUNIOR YEAR

SUMMER QUARTER (7th) :\*  
June 19 to September 2, 1939.

Medicine (Junior) .....	385 Hours
Free time .....	44 Hours

AUTUMN QUARTER (8th) :\*  
September 28 to December 16, 1939.

Surgery (Junior) .....	418 Hours
Free time .....	11 Hours

WINTER QUARTER (9th) :\*  
January 3 to March 18, 1939.

Obstetrics and gynecology (Junior) .....	220 Hours
Ophthalmology and Otolaryngology .....	66 Hours
Free time .....	143 Hours

## SENIOR YEAR

SPRING QUARTER (10th) :\*  
March 27 to June 10, 1939.

Medicine (Senior) .....	390 Hours
Free time .....	39 Hours

SUMMER QUARTER (11th) :\*  
June 19 to September 2, 1939.

Surgery (Senior) including Urology and Orthopaedics .....	309 Hours
Obstetrics .....	120 Hours

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.

## AUTUMN QUARTER (12th) :\*

September 28 to December 16, 1939.

Pediatrics .....	191 Hours
Medicine .....	82 Hours
Final clinical examinations .....	24 Hours
Preventive medicine .....	22 Hours
Free time .....	110 Hours

## SUMMARY

Total number of hours required instruction, (83%) .....	4,290
Total number of hours of free time, (17%) .....	858
Total number of hours in curriculum, (100%) .....	5,148

\* The clinical instruction is repeated each quarter in order to utilize all the clinical material and to have small groups of students. Consequently, students may vary the order of the seventh, eighth, and ninth quarters, and also the order of the tenth, eleventh, and twelfth quarters. Students, who do not attend the Summer Quarters, have similar instruction one quarter later. The above schedule merely illustrates the program of one group.



## FEES AND EXPENSES

All fees for each quarter are due and payable at the beginning of each quarter, and no student will be admitted to classes until these fees have been paid at the University Treasurer's Office. A fine of \$5.00 is charged for late registration. No credit will be given for any quarter in which the tuition of \$150 has not been paid at the Treasurer's Office, whether the work has been done here or elsewhere, except: (1) students who have been given permission by the Curriculum Committee to spend a quarter at a European medical school or hospital will have their tuition of \$150 for that quarter remitted and (2) students who have been permitted by the Curriculum Committee to spend a quarter at another American medical school or hospital may subtract the amount of tuition paid at this other medical school or hospital from the \$150 due here for that quarter.

It is not advisable for a student to attempt outside work to defray his expenses; the results usually are disastrous to his health and academic standing.

### Fees and Expenses

Tuition, per quarter .....	\$150
Health Fee, per quarter .....	3.33
Athletic Fee, admitting students to all athletic contests held on the University grounds during the quarter .....	5
Room-rent, per quarter* (estimated) .....	50
Board, per quarter (estimated) .....	75
Laundry, per quarter (estimated) .....	10 to 20
Books, per quarter (estimated) .....	25 to 50
Commencement and Diploma Fees** .....	8
National Board of Medical Examiners Fees** 25 (Part I), 20 (Part II)	
Microscope, ophthalmoscope, otoscope and other equipment, which are required of each student and which must conform to rigid standards, may be obtained on a rental basis from the University	20 to 30
Estimated total expenses, per month .....	100 to 150

## ANGIER B. DUKE MEMORIAL AND OTHER LOAN FUNDS

The Angier B. Duke Memorial, Incorporated, administers through an advisory committee of the officers of the University a loan fund for students. In addition, the University administers other endowed loan funds for the benefit of students who are not financially able to meet their expenses. Medical students, after their third quarter, are eligible for loans from these sources. No scholarships are awarded in the School of Medicine. The loan funds are administered in accordance with the following regulations:

\* Rooms may be reserved by medical students in the Graduate and Professional Student Dormitory. These rooms are provided with furniture, heat, electric light, and care of rooms; each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Applications for rooms, accompanied by a reservation fee of \$25, should be made before August 1, by writing to Mr. W. E. Whitford, Duke University, Durham, N. C. This fee is deducted from the room charges for the Fall Quarter; it is not refundable unless the request is made on or before August 1.

\*\* Payable at the beginning of the quarter in which a student is eligible for a degree or examination.

1. No loan will be made to a student who violates any of the regulations of the University or who is not doing outstanding class work.

2. Loans will be made only to students who are taking full courses of study that lead to a degree, and all loans must be arranged not later than one week after the beginning of a quarter.

3. Every applicant for a loan must present with the application such security as the President of the University may approve, and no money will be advanced before a note with approved security is in the hands of the Treasurer of the University.

4. Interest at the rate of 6 per cent annually shall be charged for all loans of money, and the interest must be paid annually.

### RESEARCH FELLOWSHIPS

The Anna H. Hanes Research Fellowship, in the Department of Medicine, held by Dr. Raymond Reiser.

The Lederle Laboratories Research Fellowship, in the Department of Biochemistry, held by Dr. Hans Neurath.

The James A. Greene Brucella Research Fellowship, in the Department of Medicine, held by Dr. Bowman Wise.

The Lederle Fellowship, in the Department of Surgery, held by Dr. Walter Marx.

The National Cancer Institute Fellowship, in the Department of Surgery, held by Dr. W. Ray Bryan.

The Ciba Pharmaceutical Products Research Fellowship in Endocrinology, held by W. Kenneth Cuyler.

### MEMORIAL CHAIR OF MEDICINE AND MEDICAL RESEARCH

The Florence Reynaud McAlister Chair of Medicine and Medical Research was established and endowed in 1936 by Mrs. Amelia McAlister Upshur, in memory of her sister.

# THE SCHOOL OF NURSING

1938-1939

ANNOUNCEMENTS FOR 1939-1940

## CALENDAR

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1939

- Jan. 3. Tuesday—Winter Quarter begins.  
March 18. Saturday—Winter Quarter ends.  
March 27. Monday—Spring Quarter begins.  
April 10. Easter Monday: a holiday.  
June 5. Monday—Commencement.  
June 10. Saturday—Spring Quarter ends.  
June 19. Monday—Summer Quarter begins.  
July 4. Tuesday—Independence Day: a holiday.  
Sept. 2. Saturday—Summer Quarter ends.  
Sept. 28. Thursday—Autumn Quarter begins.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 16. Saturday—Autumn Quarter ends.

1940

- Jan. 2. Tuesday—Winter Quarter begins.  
March 16. Saturday—Winter Quarter ends.  
March 25. Easter Monday: a holiday.  
March 26. Tuesday—Spring Quarter begins.  
June 3. Monday—Commencement.  
June 8. Saturday—Spring Quarter ends.

## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., Ph.D., Litt.D., LL.D.  
*President of the University*

ROBERT LEE FLOWERS, A.M., LL.D.  
*Vice-President, Secretary, and Treasurer*

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.  
*Vice-President*

CHARLES BLACKWELL MARKHAM, A.B., A.M.  
*Assistant Treasurer*

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BESSIE BAKER, R.N., B.S.  
*Dean of the School of Nursing, Emeritus*

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## COMMITTEES

### SCHOOL OF NURSING COMMITTEE

BESSIE BAKER  
W. C. DAVISON  
ISABEL H. DILL

G. S. EADIE  
ANN H. GARDINER  
GARNETT A. NESTER

### NURSING SERVICE COMMITTEE

F. V. ALTVATER  
J. L. CALLAWAY  
GARNETT A. NESTER  
MARGARET PEELE

GRACE SAMPLE  
MILDRED SHERWOOD  
J. ELIZABETH WHITE  
BARNES WOODHALL

## GENERAL INFORMATION

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The School of Nursing of Duke University was established in 1925 in connection with the School of Medicine of the University and Duke Hospital through the munificent gift of the late James B. Duke.

The plan of the School is to give a sound basic course in Nursing Education which will prepare young women to give intelligent nursing care to the sick in hospitals and homes of the community as well as an introduction to the problems of community health and preventive medicine.

### FACILITIES FOR INSTRUCTION

The facilities for instruction include the undergraduate colleges of the University, the School of Medicine, and the Duke Hospital.

### LIBRARIES

The reference library of books and periodicals of special interest to students majoring in nursing is located in the Hospital Library. The students may use the general libraries on both campuses.

### RESIDENCE

The students are housed in the fireproof residence located near the Hospital. It is adequately equipped with blankets and linen, making further provision by the student unnecessary.

### HEALTH REGULATIONS AND PHYSICAL EDUCATION

The School has general supervision of the student's health. All physical defects, such as defective vision, dental needs, etc., must be corrected before admission to the School. The student must have been immunized against typhoid fever, and vaccinated against smallpox during the current year. All students are required to pass a physical examination upon admission to the School of Nursing and at intervals thereafter, a final examination being given at the end of the course. Exercise for two periods a week during the first two quarters is required of all students.

### ACTIVITIES OFFERED

*Autumn Quarter* (October to December): Hockey, swimming, tennis, moderate sports, and hiking.

*Winter Quarter* (January to March): Informal gymnastics, Danish gymnastics, apparatus, games, individual gymnastics, folk dances, clogging, interpretative dancing, swimming, and basketball.

*Spring Quarter* (March to June): Tennis, swimming, baseball, track, field events, and archery.



## ADMISSION REQUIREMENTS

Application forms may be obtained by writing to the Dean, Duke University School of Nursing, Durham, N. C. They must be typed, a 2 x 2½ inch recent photograph attached, and the application returned to the Dean as soon as possible. Applications are considered in the order received. If the information is satisfactory, a personal interview with the Committee or a Regional Representative will be arranged for the applicant. The candidate is notified as soon as possible whether she has been accepted or declined; if accepted, the student must send in a deposit of twenty-five dollars (\$25) within two weeks to insure enrollment. This money is applied toward her tuition. Students are admitted only at the beginning of the Autumn Quarter, but applications are considered, and a decision with regard to admission is made after January 1 of that year. Students are matriculated in the School of Nursing on September 26, 1939.

Intelligence and character are essential qualifications for admission.

In addition, each candidate must have passed her eighteenth birthday and have had the following preparation:

## 1939

The requirements for the class entering in 1939 are graduation from an accredited high school. Students in this class will be eligible for the diploma of graduate nurse after three years in the School of Nursing. Students who have had two years (60 semester hours) of acceptable college work in an accredited college or university will in addition be eligible for the degree of Bachelor of Science in Nursing. These two years of college work may be taken before or after the completion of the work for the diploma. The college courses suggested are those listed for the 1941 class.

## 1940

The requirements for the class entering in 1940 are completion of one year of acceptable college work in an accredited college or university. Students entering in 1940 are eligible for the diploma of graduate nurse after three years in the School of Nursing. Those who have had or who take a second year of acceptable college work are eligible for the degree of Bachelor of Science in Nursing.

The following college courses are required for admission:

	Approx. S.H.
English Composition, one year .....	6
General Inorganic Chemistry, one year .....	8
Zoology, one year .....	8
*Electives .....	8
<i>Total</i> .....	<u>30</u>

\* Electives may be chosen from any of the following fields: history; political science or economics; mathematics; English literature; foreign language (if foreign language is elected, the second year in college or the second year of college language based on two high-school units should be completed). A semester of general psychology and a year of sociology are strongly recommended.

**1941 and Succeeding Years**

The requirements for the class entering in 1941 are the completion of two years of acceptable college work (60 semester hours) in an accredited college or university. Students entering in 1941 are eligible both for the diploma of graduate nurse and the degree of Bachelor of Science in Nursing after three years in the School of Nursing.

The following college courses are required for admission:

	Approx. S.H.
English Composition, one year .....	6
General Inorganic Chemistry, one year .....	8
General Zoology, one year .....	8
General Physics, one year .....	8
*Electives .....	30-34
<i>Total</i> .....	60-64

**EXPENSES**

The estimated cost for the three years' course is approximately \$340, distributed as follows:

	Total
Tuition fee \$100 per year .....	\$300
Incidentals \$10 per year .....	30
Commencement fee .....	8

Incidental expenses include special books, excursions, student activity fees, etc.

The tuition fee is payable as follows:

First year, \$25 upon acceptance by the School  
                   \$25 upon registration, September 26, 1939  
                   \$50 on January 1, 1940

Second and third years, \$50 on October 1 and \$50 on January 1.

There will be no refund. The tuition includes room, board, laundry, uniforms, and some of the textbooks. The expenses of the two years of college work, which are required for the Bachelor of Science degree, are borne by the student.

**READMISSION**

Students who are absent for more than one month through illness or leave of absence may be readmitted to the same or a succeeding class at the discretion of the Committee.

**VACATIONS**

Each year is divided into four quarters of three months each. The first-year students have vacations of two weeks at Christmas and two weeks during the summer. Junior and Senior students have vacations of one month each.

\* Electives may be chosen from any of the following fields: history; political science or economics; mathematics; English literature; foreign language (if foreign language is elected, the second year in college or the second year of college language based on two high-school units should be completed). A semester of general psychology and a year of sociology are strongly recommended.

## COURSES OF INSTRUCTION

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*This is a condensed description of courses. For a full descriptions, see Bulletin of the School of Nursing.*

Anatomy and Physiology.	DR. YOUNGSTROM, DR. KOHN, MISS GARDINER
Chemistry.	DR. TAYLOR, MISS GARDINER
Bacteriology.	DR. MARTIN, MISS GARDINER
Pathology.	DR. SPRUNT, MISS GARDINER
Elementary Materia Medica.	MISS GARDINER
Advanced Materia Medica.	MISS GARDINER
Elementary Psychology.	DR. LUNDHOLM
Applied Psychology.	MISS GARDINER
English I, II.	MRS. GRAY
History of Nursing.	MISS GARDINER
Nursing Arts I.	MISS DILL
Nursing Arts II.	MISS DILL
Nursing Arts III.	MISS DILL AND SUPERVISORS
Case Study.	MISS BURNHAM
Senior Demonstration.	MISS DILL AND SUPERVISORS
Professional Adjustments.	MISS GARDINER, MR. J. BRADWAY
Nutrition, Foods, and Cookery.	MRS. MARTIN
Dietetic Therapy.	MRS. MARTIN
Sociology.	MISS GARDINER
Social Service.	MISS GARDINER, MISS PERRY GIBSON
Introduction to Community Health.	MISS GARDINER
Preventive Medicine and Public Health.	DR. BROWN, DR. EPPERSON AND ASSISTANTS, MISS GARDINER
Medical Diseases and Medical Nursing.	DR. MANNING, MISS BURNHAM
Dermatology.	DR. CALLAWAY, MISS GARDINER
Neurology and Psychiatry.	DR. CRISPELL, MISS GARDINER
General Surgical Diseases and Surgical Nursing.	DR. FLETCHER, MRS. MOSELEY
Operating Room Technique.	MISS BATCHELDER

Orthopedics.	DR. RANEY, DR. LENOX BAKER, MRS. MOSELEY
Urology.	DR. ALYEA, MRS. MOSELEY
Otology, Rhinology, and Laryngology.	DR. EAGLE, MISS GARDINER
Ophthalmology.	DR. ANDERSON, MISS GARDINER
Gynecology and Gynecological Nursing.	DR. CARTER, MISS IRVINE
Obstetrics and Obstetrical Nursing.	DR. CARTER, MISS IRVINE
Pediatrics and Pediatric Nursing.	DR. MCBRYDE, MISS SHERWOOD
Communicable Diseases.	DR. MCBRYDE, MISS BURNHAM
X-Ray.	DR. REEVES, MISS BURNHAM
Dental Hygiene.	DR. ATWOOD, MISS BURNHAM
Allergy.	DR. HANSEN-PRÜSS, MISS BURNHAM
Basal Metabolism.	DR. JOHNSTON, MISS BURNHAM
Physical Therapy.	MISS GORDON
Posture.	MISS GORDON

## CURRICULUM

## FIRST YEAR

<i>Autumn Quarter</i>				<i>Winter Quarter</i>			
Hours				Hours			
Lect. Class	Lab.	Total		Lect. Class	Lab.	Total	
Anatomy and Physiology .....	49	63	112	Nursing Arts II ...	44	55	99
Chemistry .....	33	22	55	Bacteriology .....	22	22	44
History of Nursing .....	33			Elem. Materia Medica .....	22	11	33
Elem. Psych. ....	22		22	Nutrition, Foods, and Cookery .....	22	22	44
Introd. to Commun. Health .....	22		22	English .....	22		22
English .....	22		22		132	110	242
Nursing Arts I ....	22	11	33	Ward Practice .....	18 hours weekly		
Posture .....	3	8	11				
	206	104	310				

Physical Education 2 hours a week the first and second quarter.

<i>Spring Quarter</i>				<i>Summer Quarter</i>	
Hours					
Lect. Class	Lab.	Total			
Nursing Arts III ..	33	33	66	Vacation .....	2 weeks
Case Study .....	6	5	11	Ward Practice .....	8 hours daily
Physical Therapy ..	4	12	16		
Adv. Materia Medica	33		33		
Dietetic Therapy ...	44		44		
	120	50	170		
Ward Practice .....	30 hours weekly				

## SECOND YEAR

<i>Autumn Quarter</i>			<i>Winter Quarter</i>		
	Hours			Hours	
	Lect.	Total		Lect.	Total
	Class			Class	
Pathology .....	22	22	Gynecology .....	22	22
Medicine .....	33	33	Urology .....	22	22
Surgery .....	33	33	Special Therapeutics	22	22
Oper. Rm. Tech. ...	11	11	Communicable		
Orthopedics .....	22	22	Diseases .....	33	33
	<u>121</u>	<u>121</u>		<u>99</u>	<u>99</u>

<i>Spring Quarter</i>			<i>Summer Quarter</i>	
	Hours			
	Lect.	Total		
	Class			
Applied Psych. . . .	22	22	Vacation .....	4 weeks
Ear, Nose, & Throat	22	22	Ward Practice .....	8 hours daily
Sociology .....	33	33		
	<u>77</u>	<u>77</u>		

## THIRD YEAR

<i>Autumn Quarter</i>			<i>Winter Quarter</i>		
	Hours			Hours	
	Lect., Class			Lect., Class	
Obstetrics .....	44		Psychiatry .....	33	
Pediatrics .....	44		Eye .....	11	
	<u>88</u>		Dermatology .....	11	
			Senior Demonstration	11	
				<u>66</u>	

<i>Spring Quarter</i>			<i>Summer Quarter</i>	
	Hours			
	Lect., Class			
Professional			Vacation .....	4 weeks
Adjustments .....	22		Ward Practice .....	8 hours daily
Preventive Med. and				
Public Health .....	22			
Social Service .....	22			
	<u>66</u>			





# THE SCHOOL OF RELIGION

1938-1939

ANNOUNCEMENTS FOR 1939-1940

## CALENDAR

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### 1939

- Sept. 22. Friday, 4:00 P.M.—First regular Faculty meeting.  
Sept. 23. Saturday—Matriculation and registration of students.  
Sept. 25. Monday, 8:00 A.M.—Instruction begins.  
Sept. 28. Thursday—Formal opening exercises.  
Oct. 4. Wednesday—Last day for submitting subjects for B.D. theses.  
Oct. 12. Thursday—Fall retreat.  
Nov. 30. Thursday—Thanksgiving Day: a holiday.  
Dec. 11. Monday—Duke University Day.  
Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

### 1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.  
Jan. 17. Wednesday—Mid-year examinations begin.  
Jan. 31. Wednesday—Matriculation and registration for second semester.  
Feb. 1. Thursday—Second semester begins.  
March 30. Saturday, 1:00 P.M.—Spring vacation begins.  
April 8. Monday, 8:00 A.M.—Instruction is resumed.  
May 15. Wednesday—Last day for submitting B.D. theses.  
May 17. Friday—Final examinations begin.  
June 1. Saturday—Commencement opens; Senior Class Day; Meeting of Board of Trustees.  
June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.  
June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## GENERAL ADMINISTRATION

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FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., LL.D., Litt.D.  
*President of the University*

FLOWERS, ROBERT LEE, A.M., LL.D.  
*Vice-President in the Business Division, Secretary, and  
Treasurer of the University*

WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D.  
*Vice-President in the Educational Division of the University*

BROWN, FRANK CLYDE, A.B., A.M., Ph.D.  
*Comptroller of the University*

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## COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF RELIGION

W. W. PEELE, T. M. GRANT, J. B. HURLEY, T. F. MARR

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## EDUCATIONAL ADMINISTRATION

RUSSELL, ELBERT, A.B., A.M., Ph.D.  
*Dean of the School of Religion*

GARBER, PAUL NEFF, A.B., A.M., Ph.D.  
*Registrar of the School of Religion*

## SCHOOL OF RELIGION IN DUKE UNIVERSITY

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### HISTORICAL STATEMENT

The present Duke University has been gradually developed from a simple beginning in a local school established in 1838 in the northwestern part of Randolph County, North Carolina. This school was enlarged in 1840 and named Union Institute. In 1841 it was incorporated as Union Institute Academy by the legislature of North Carolina. Under the leadership of President Braxton Craven, the Academy grew into an institution chartered as Normal College in 1851. An amendment to the charter in November, 1852, authorized Normal College to grant degrees, and two students were graduated in 1853 with the degree of Bachelor of Arts.

In 1859 the charter of Normal College was amended to place the institution under the control of the Methodist Episcopal Church, South, and the name was changed to Trinity College. Dr. John Franklin Crowell became president of Trinity College in 1887. The most important achievement of his administration was the removal of the College to Durham, North Carolina, which was accomplished by September, 1892.

President Crowell resigned in 1894, and was succeeded by the Reverend John Carlisle Kilgo, D.D. During President Kilgo's administration the endowment of Trinity College was greatly increased, a library and other important buildings were erected, and notable progress was made in increasing the variety and improving the quality of the courses of instruction. A School of Law was established in 1904 by the gift of James B. and Benjamin N. Duke. In 1910 President Kilgo was succeeded by Dr. William Preston Few.

Trinity College has experienced a great expansion in faculty, endowment, buildings, and equipment during President Few's administration. In December, 1924, James B. Duke established a \$40,000,000 trust fund for educational and charitable purposes. Trinity College accepted the terms of the indenture of trust on December 29, 1924, and on the following day the name of the institution was changed to Duke University. Mr. Duke's death in 1925 was followed by the announcement of munificent provisions in his will for the development of the University which bears his family name.

### SCHOOL OF RELIGION

Trinity College was established by Christian men for the purpose of providing education for young men and women under distinctive Christian auspices. There has been no departure from this clearly defined aim. On the contrary, there has been ever increasing emphasis placed upon this feature of the work of the College, especially in the provision in the curriculum for a great variety of courses on the Bible and other religious subjects.

Through the gift of James B. Duke, the School of Religion and its curriculum have been separated from the work of the Department of Religion in Trinity College. Among those for whom his gift was intended Mr. Duke placed ministers first. He felt sure that his native state of North Carolina stood in need primarily of a better educated and more efficiently trained ministry. The organization of the School of Religion of Duke University, the first of the professional schools to start its work, is the carrying out of this intention on the part of Mr. Duke. The work of the School began with the academic year 1926-27, though the formal opening exercises were not held until November 9, 1926.

Duke University retains the same close relationship which Trinity College always held to the Conferences in North Carolina of the Methodist Episcopal Church, South. This legal relationship has always been broadly interpreted: members of all Christian denominations, as well as Methodists, are made to feel welcome in the School of Religion. The basis on which the work is conducted is broadly catholic and not narrowly denominational.

The School of Religion is a member of the American Association of Theological Schools and was included in the list of accredited theological schools approved by the Association in June, 1938.

### THE PURPOSE OF THE SCHOOL OF RELIGION

Christian work has now expanded to the extent that it covers far more than the work of a preacher or minister. The School of Religion of Duke University purposes to offer training for all types of Christian service. This includes missionaries, teachers of Bible and other religious subjects in the schools and colleges of the Church, directors of religious education, and social workers. In the future it is planned to fit the courses more completely to the needs of these workers. Still it must be kept clear that the minister in charge of a church, who is placed before the people to preach the Gospel of Christ, is the center and key to the whole problem of Christian work in the church. It is felt with strong conviction that the training of all Christian workers should be maintained on a high level. Consequently, the School of Religion is organized on a strictly graduate basis. It is sincerely hoped that the standard thus set may increasingly influence the type of men and women entering Christian work and may lead them to demand the best of themselves in the prosecution of the work of Christ among men.

### RELATION OF THE SCHOOL OF RELIGION TO DUKE UNIVERSITY

As one of the co-ordinate schools of Duke University, the School of Religion is in closest touch with the other schools, particularly with Trinity College and with the Graduate School. Correspondence is invited from those who are interested in the possibility of securing degrees other than that of Bachelor of Divinity, which is granted upon recommendation of the Faculty of the School of Religion. Seniors in Trinity College are

admitted to certain courses in the School of Religion. Various privileges of Duke University are open to students of the School of Religion. Students in the School are expected to take part in the religious and social life of the University campus and to share in athletic interest and activities.

### REQUIREMENTS FOR ADMISSION

Candidates for matriculation must be graduates of colleges of recognized standing. They will be admitted without examination on presentation of an official transcript of all college credits and such other credits as they may have secured. This applies to students coming from foreign countries as well as to students from institutions in the United States. They must satisfy the Faculty as to their Christian character and purpose. To this end a letter regarding a student's character and purpose from the pastor of his home church, a church official, or some faculty member in the college where he did his undergraduate work, should be presented at the time of admission. Women will be admitted on the same conditions as men.

### PART-TIME SCHEDULES

Students who are not giving full time to their studies in the School of Religion may carry only limited schedules of class work.

### REQUIREMENTS FOR GRADUATION

The requirements for the degree of Bachelor of Divinity are ninety semester hours, six semester hours of which shall be covered by the writing of an adequate thesis, either in a thesis seminar or under supervised thesis guidance. The course is planned to cover three years, of two semesters each, and students are urged to plan to spend in their theological studies the full time thus designated. In no case will the degree of Bachelor of Divinity be conferred on a student until he has spent at least two full semesters in residence in the School of Religion, and has satisfactorily completed a minimum of twenty-four semester hours of work.

### THESIS

A thesis is required of all candidates for the degree of Bachelor of Divinity. It shall be of such a character as shall evidence a knowledge of the methods of research and an ability to conduct independent investigations. It shall be written upon some topic in the major field of study. The candidate is responsible for the selection of a suitable subject, which must be approved by the professor in charge of the major field, and must be filed with the Dean of the School of Religion on or before October 5 of the academic year in which it is expected that the degree will be conferred. Following the submission and approval of the subject of the thesis no changes shall be permitted, except changes for the purpose of clarification or limitation of the subject. A student who does not complete his thesis within a period of three years from the date of the approval of his subject must secure a reappraisal of the old subject or the



approval of a new subject. The thesis shall be prepared under the supervision and guidance of the professor in charge of the major field. No student shall be allowed to write his thesis *in absentia* except on the approval of the Committee on Theses upon the recommendation of the professor in charge of the thesis. In all such cases regular reports as to the progress of the thesis must be made to the professor in charge, as often as he may deem wise.

The thesis shall be between one hundred and one hundred and twenty pages in length, inclusive of introduction, conclusion, appendices, and bibliography, except in unusual cases clearly recognized as such by the Committee on Theses in approving thesis subjects. The student, the director, and the Committee on Theses shall be responsible for the selection and approval of such subjects as can be treated satisfactorily within these limits.

The thesis shall be read by a committee of three members of the Faculty of the School of Religion, one of whom shall be the professor under whose direction the thesis has been written, and two other members appointed by the Dean, one of whom shall be of a department other than that in which the thesis is written. Each candidate shall be examined orally on his thesis by the committee appointed to read it, said examination not to exceed one hour in length. The thesis must be satisfactory to a majority of the members of the Committee of Examination, including the representative of the department in which the thesis was written.

A complete, typed copy of the thesis shall be in the hands of the professor under whom the thesis is written, for correction, by May 1, and three permanently bound typewritten copies shall be presented for examination not later than May 15 of the year in which it is expected the degree will be conferred. Theses submitted after May 15 shall not be considered as fulfilling the requirements for graduation in that academic year. In the case of extensive corrections of the thesis in the course of the examination, such retyping and rebinding of the thesis as the Committee of Examination may desire shall be required.

### PRE-SEMINARY CURRICULUM

The School of Religion in substantial agreement with the standards of the American Association of Theological Schools recommends that prospective candidates for admission keep in mind the desirability of including the following in their undergraduate curriculum:

Two years' work in English literature and composition.

Two years in a foreign language.

One semester each in psychology, philosophy, and sociology (or economics).

One year in history.

An introduction to the natural sciences with adequate laboratory work (biology or one of the physical sciences).

Proficiency in public speaking.

# REQUIREMENTS FOR THE DEGREE OF BACHELOR OF DIVINITY

## GENERAL REQUIREMENTS

Ninety semester hours are required for graduation. Forty-two of these must be the following:

Old Testament	6 s.h.
New Testament	6 s.h.
Christian Doctrine	6 s.h.
Church History	6 s.h.
Homiletics	6 s.h.
Practical Theology	6 s.h.
Religious Education	3 s.h.
History of Religion and Missions	3 s.h.
	42 s.h.

## MAJORS AND THESES

Each student must select a major field in which he elects to write his thesis and in which he must take twelve semester hours in addition to the general requirement in that field. This choice must be made by the end of the Middle year. A student may take his major in any of the departments of the School of Religion. He may also take his major in English Bible. To major in that field, he must complete in addition to the required work in the Departments of Old Testament and New Testament nine semester hours in the Department of Old Testament and nine semester hours in the Department of New Testament, exclusive of language.

12 s.h.

## FREE ELECTIVES

Thirty-six semester hours are designated as free electives. These are to be elected by the student, subject to the approval of the Faculty.

36 s.h.

90 s.h.

## DISTRIBUTION OF COURSES BY YEARS

### JUNIOR YEAR

Old Testament	6 s.h.
New Testament	6 s.h.
Church History	6 s.h.

The remaining twelve semester hours shall be chosen from the remaining required courses or their normal sequences in the Departments of Homiletics, Practical Theology, Religious Education, History of Religion and Missions, but not more than six semester hours shall be taken in one department. Students desiring courses in Greek and Hebrew may secure a suitable rearrangement of the distribution of courses by years on approval of the Registration Committee.

12 s.h.

30 s.h.

MIDDLE YEAR

Christian Doctrine

6 s.h.

After completing all other required courses, the remainder of the work of this year is elective, but not more than twelve semester hours shall be taken in one department.

24 s.h.

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30 s.h.

SENIOR YEAR

In the Senior year the student must fulfill all general requirements not completed in the Junior and Middle years. The remainder of the work is elective.

30 s.h.

TABLE OF REQUIRED COURSES

OLD TESTAMENT

203-204. Introduction to the Old Testament 6 s.h.

NEW TESTAMENT

213-214. The Beginnings of Christianity 6 s.h.

CHRISTIAN DOCTRINE

321. Introduction to Theology, *and either* 3 s.h.

322. The Content of Christian Doctrine, *or* 3 s.h.

324. Theology in Modern Christianity, *or* 3 s.h.

204. Christian Ethics, *or* 3 s.h.

245. Philosophical Foundations of Religious Belief I, *or* 3 s.h.

246. Philosophical Foundations of Religious Belief II 3 s.h.

CHURCH HISTORY

233. Church History to the Reformation 3 s.h.

234. The History of the Evangelical Movement 3 s.h.

HOMILETICS

SR341-342. Theory and Practice of Preaching 6 s.h.

PRACTICAL THEOLOGY

[Six semester hours chosen from the following courses.]

351. Rural Church Administration (alternating with SR355, Public Worship and Ordinances of the Church), *or* 3 s.h.

SR386. Missionary Promotion, *or* 3 s.h.

234. Social Ethics 3 s.h.

RELIGIOUS EDUCATION

261. Foundations of Religious Education, *or* 3 s.h.

262. Organization of Religious Education 3 s.h.

HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World 3 s.h.

## COURSES OF INSTRUCTION\*

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### OLD TESTAMENT

- 201-202. Elementary Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING
- 203-204. Introduction to the Old Testament.—6 s.h.  
PROFESSOR RUSSELL AND ASSISTANT PROFESSOR STINESPRING
301. Old Testament Theology.—Prerequisite: Old Testament 203-204.  
3 s.h. PROFESSOR RUSSELL
302. The Exegesis of Selected Books of the Old Testament.—Prerequisite:  
Old Testament 203-204. 3 s.h. ASSISTANT PROFESSOR STINESPRING
303. Aramaic.—3 s.h. ASSISTANT PROFESSOR STINESPRING
- 305-306. Elementary Arabic.—6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]
- 307-308. Advanced Hebrew.—6 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]
309. History of the Ancient Near East.—3 s.h.  
ASSISTANT PROFESSOR STINESPRING
310. Old Testament Prophecy.—3 s.h. ASSISTANT PROFESSOR STINESPRING  
[Not offered in 1939-40]
- 401-402. Thesis Seminar. DEPARTMENTAL STAFF

### NEW TESTAMENT

- SR211-212. Hellenistic Greek. ASSISTANT PROFESSOR CLARK
- 213-214. The Beginnings of Christianity.—6 s.h. PROFESSOR BRANSCOMB
217. The New Testament in Greek.—Prerequisite: six semester hours' study of the Greek language. 3 s.h. ASSISTANT PROFESSOR CLARK
218. Galatians and I Corinthians.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK
219. Life of Paul.—3 s.h. PROFESSOR MYERS
220. I Peter and the Gospel of John.—Prerequisite: New Testament 217 or its equivalent. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1939-40]
311. The Life and Teachings of Jesus.—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR BRANSCOMB
312. New Testament Theology.—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR RUSSELL

\* On recommendation of the professor in charge of the major field courses offered in the Graduate School of Arts and Sciences, other than those approved for credit in the School of Religion, may be approved for credit in individual cases, provided no equivalent course is offered in the School of Religion; each case to be decided on its merits.

314. Exegesis of Selected Books of the New Testament.—Prerequisite: New Testament 213-214. 3 s.h. ASSISTANT PROFESSOR CLARK  
[Not offered in 1939-40]

315. Hellenistic Religions at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. 3 s.h. ASSISTANT PROFESSOR CLARK

316. Judaism at the Beginning of the Christian Era.—Prerequisite: New Testament 213-214. 3 s.h. PROFESSOR BRANSCOMB

318. Text of New Testament.—Prerequisite: New Testament 213-214 and a reading knowledge of Greek. 3 s.h. ASSISTANT PROFESSOR CLARK

411-412. Thesis Seminar. DEPARTMENTAL STAFF

### CHRISTIAN DOCTRINE

221. Platonism and Christianity.—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. ASSISTANT PROFESSOR OUTLER

222. Theology and Philosophy in the Nineteenth Century.—Prerequisite: six semester hours in philosophy or its equivalent (Christian Doctrine 321). 3 s.h. ASSISTANT PROFESSOR OUTLER

321. Introduction to Theology.—3 s.h. PROFESSOR ROWE

322. The Content of Christian Doctrine.—3 s.h. PROFESSOR ROWE

323. Theology in Ancient and Medieval Christianity.—Prerequisite: Christian Doctrine 321. 3 s.h. ASSISTANT PROFESSOR OUTLER

324. Theology in Modern Christianity.—Prerequisite: Christian Doctrine 321. ASSISTANT PROFESSOR OUTLER

325. Soteriology.—Prerequisite: Christian Doctrine 321-322. 3 s.h. PROFESSOR ROWE

326. Eschatology.—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE

327. Arminian Theology.—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE  
[Not offered in 1939-40]

328. Current Theology.—Prerequisite: Christian Doctrine 321. 3 s.h. PROFESSOR ROWE  
[Not offered in 1939-40]

421-422. Thesis Seminar. PROFESSOR ROWE

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301. Old Testament Theology.—3 s.h. PROFESSOR RUSSELL

312. New Testament Theology.—3 s.h. PROFESSOR RUSSELL

### CHURCH HISTORY

233. Church History to the Reformation.—3 s.h. ASSISTANT PROFESSOR PETRY

234. History of the Evangelical Movement.—3 s.h. PROFESSOR GARBER

331. The Social Message of the Early and Medieval Church.—Prerequisite: Church History 233-234. 3 s.h. ASSISTANT PROFESSOR PETRY

332. **The Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h.  
ASSISTANT PROFESSOR PETRY
333. **Protestantism and Catholicism in Europe since 1800.**—Prerequisite: Church History 233-234. 3 s.h.  
[Not offered in 1939-40] PROFESSOR GARBER
334. **The Church in America: The National Period.**—Prerequisite: Church History 233-234. 3 s.h.  
PROFESSOR GARBER
335. **Modern Religious Leaders.**—Prerequisite: Church History 233-234. 3 s.h.  
[Not offered in 1939-40] PROFESSOR GARBER
336. **Religious Leaders of the Early and Medieval Church.**—Prerequisite: Church History 233-234. 3 s.h.  
[Not offered in 1939-40] ASSISTANT PROFESSOR PETRY
338. **Methodism.**—Prerequisite: Church History 233-234. 3 s.h.  
PROFESSOR GARBER
339. **Religion in the Southern States since the Civil War.**—Prerequisite: Church History 233-234. 3 s.h.  
[Not offered in 1939-40] PROFESSOR GARBER
432. **A History of Christian Renunciation in the Middle Ages.**—Prerequisite: Church History 233-234. 3 s.h.  
ASSISTANT PROFESSOR PETRY
- 437-438. **Thesis Seminar.** DEPARTMENTAL STAFF

### HOMILETICS

- SR341-342. **Theory and Practice of Preaching.**—6 s.h.  
PROFESSORS HICKMAN, MYERS, AND ROWE
346. **Doctrinal Preaching.**—3 s.h. PROFESSOR HICKMAN
347. **History of Preaching.**—3 s.h. PROFESSOR MYERS  
[Not offered in 1939-40]
348. **Materials of Preaching.**—3 s.h. PROFESSOR MYERS  
[Not offered in 1939-40]
343. **Pastoral Psychology.**—3 s.h. PROFESSOR HICKMAN
344. **Psychology of Preaching.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]

### PRACTICAL THEOLOGY

351. **Rural Church Administration.**—3 s.h. PROFESSOR ORMOND
352. **The Rural Church and Sociology.**—3 s.h. PROFESSOR ORMOND
- SR355. **Public Worship and Ordinances of the Church.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR ORMOND
- SR356. **The Church's Service to the Community.**—3 s.h.  
[Not offered in 1939-40] PROFESSOR ORMOND
- SR358a. **Church Music.**—2 s.h. MR. BARNES
- SR358b. **Church Architecture.**—1 s.h. MR. HAINES



- SR453-454. Practicum on Rural Church Work.—2 s.h. PROFESSOR ORMOND
- \*220. Rural Sociology.—3 s.h. ASSISTANT PROFESSOR THOMPSON
234. Social Ethics.—3 s.h. PROFESSOR HART
373. Pastoral Psychology.—3 s.h. PROFESSOR HICKMAN
- SR386. Missionary Promotion.—3 s.h. PROFESSOR CANNON
- \*\*459. Introduction to Psychiatry.—1 s.h. ASSOCIATE PROFESSOR CRISPELL

## RELIGIOUS EDUCATION

261. Foundations of Religious Education.—3 s.h. PROFESSOR SMITH
262. Organization of Religious Education.—3 s.h. PROFESSOR SPENCE
263. Curriculum of Religious Education.—3 s.h. PROFESSOR SPENCE
267. Technic of Teaching Religion.—3 s.h. PROFESSOR SPENCE  
[Not offered in 1939-40]
- SR265. Religious Drama.—3 s.h. PROFESSOR SPENCE
- SR268. Drama Construction and Production.—3 s.h. PROFESSOR SPENCE
266. Educational Aspects of Worship.—3 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]
362. Ethical Theory of Christian Education.—Prerequisite: Religious Education 261 or its equivalent. 3 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]
- 363-364. Religious Thought in the Rise of American Culture.—Prerequisite: Religious Education 261 or its equivalent. 6 s.h. PROFESSOR SMITH
365. Seminar in Character Education and the State.—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. PROFESSOR SMITH
366. Seminar in Philosophy of Religious Education.—Prerequisite: Religious Education 261 or its equivalent. 2 s.h. PROFESSOR SMITH
- 461-462. Thesis Seminar. DEPARTMENTAL STAFF

## PSYCHOLOGY OF RELIGION

275. Introduction to the Psychology of Religion.—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]
276. Advanced Psychology of Religion.—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]
371. The Genetic Psychology of Religion.—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]

\* Course offered in the Graduate School of Arts and Sciences which is credited toward the degree of Bachelor of Divinity.

\*\* Course offered in the School of Medicine which is credited toward the degree of Bachelor of Divinity.

372. **Mysticism in Religion.**—Prerequisite: Psychology of Religion 275 or its equivalent. 3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]
373. **Pastoral Psychology.**—3 s.h. PROFESSOR HICKMAN
374. **Psychology of Preaching.**—3 s.h. PROFESSOR HICKMAN  
[Not offered in 1939-40]
- 377-378. **Seminar: Theories of Self.**—4 s.h. PROFESSOR HICKMAN
- 471-472. **Thesis Guidance.** PROFESSOR HICKMAN
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- \*201. **Social Psychology.**—2 s.h. ASSOCIATE PROFESSOR ADAMS
- \*223. **Abnormal Psychology.**—3 s.h. PROFESSOR LUNDHOLM
- \*219. **History of Psychology.**—2 s.h. PROFESSOR \_\_\_\_\_  
[Not offered in 1939-40]
- \*228. **Psychology of Belief.**—2 s.h. PROFESSOR LUNDHOLM  
[Not offered in 1939-40]

### PHILOSOPHY OF RELIGION

- \*203. **The Philosophy of Conduct.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
204. **Christian Ethics.**—3 s.h. PROFESSOR SMITH
- \*209. **Philosophy of Religion I: Philosophical Introduction.**—3 s.h.  
PROFESSOR WIDGERY
- \*210. **Philosophy of Religion II: Philosophical Introduction.**—3 s.h.  
PROFESSOR WIDGERY
- \*226. **The History of Ethics.**—3 s.h. ASSOCIATE PROFESSOR MORGAN
245. **Philosophical Foundations of Religious Belief I.**—3 s.h.  
[Not offered in 1939-40] ACTING PROFESSOR DUBS
246. **Philosophical Foundations of Religious Belief II.**—3 s.h.  
[Not offered in 1939-40] ACTING PROFESSOR DUBS
293. **The Christian Religion and Modern Thought.**—3 s.h.  
ACTING PROFESSOR DUBS
294. **The Christian Religion and Values.**—3 s.h. ACTING PROFESSOR DUBS
368. **Seminar.**—2 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]
331. **The Social Message of the Early and Medieval Church.**—3 s.h.  
ASSISTANT PROFESSOR PETRY
362. **Ethical Theory of Religious Education.**—3 s.h. PROFESSOR SMITH  
[Not offered in 1939-40]
- 363-364. **Religious Thought in the Rise of American Culture.**—6 s.h.  
PROFESSOR SMITH

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

## SOCIOLOGY

At least five semester hours of undergraduate sociology are prerequisite to all courses of the Department, except SR202 and 234. Sociology SR202 is designed especially for students whose undergraduate training in sociology has been inadequate. Such students who wish to pursue further work in the Department are advised to enroll in course SR202 as an elective as soon as possible after matriculation in the School of Religion.

SR202. Sociology and Religion.—3 s.h. [Not offered in 1939-40]	PROFESSOR JENSEN
*205. Social Pathology.—3 s.h.	PROFESSOR JENSEN
*206. Criminology.—3 s.h.	PROFESSOR JENSEN
*212. Child Welfare.—3 s.h.	PROFESSOR JENSEN
*219. Urban Sociology.—3 s.h.	ASSISTANT PROFESSOR THOMPSON
*220. Rural Sociology.—3 s.h.	ASSISTANT PROFESSOR THOMPSON
231. General Anthropology.—3 s.h.	PROFESSOR HART
232. Cultural Anthropology.—3 s.h.	PROFESSOR HART
233. The World Crisis in the Light of Social Anthropology.—3 s.h.	PROFESSOR HART
234. Social Ethics.—3 s.h.	PROFESSOR HART
*242. Marriage and the Family.—2 s.h.	PROFESSOR GROVES (U. N. C.)
317. Seminar in Anthropology.—3 s.h.	PROFESSOR HART
318. Religion and the World Crisis.—3 s.h.	PROFESSOR HART
*319. Principles of Sociology.—3 s.h.	PROFESSOR ELLWOOD
*320. History of Social Philosophy.—3 s.h.	PROFESSOR JENSEN
421-422. Thesis Seminar.	PROFESSOR HART

## HISTORY OF RELIGION AND MISSIONS

281. Living Religions of the World.—3 s.h.	PROFESSOR CANNON
283. Expansion of Christianity.—3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
284. Comparative Religion.—Prerequisite: 281. 3 s.h.	PROFESSOR CANNON
285. The Religions of the Far East.—3 s.h.	ACTING PROFESSOR DUBS
286. The Religions of India.—3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
287. Mohammedanism.—Prerequisite: 281. 3 s.h. [Not offered in 1939-40]	PROFESSOR CANNON
289. Buddhism.—Prerequisite: 281. 3 s.h.	PROFESSOR CANNON
SR386. Missionary Promotion.—Prerequisite: 281. 3 s.h.	PROFESSOR CANNON

\* Courses offered in the Graduate School of Arts and Sciences which are credited toward the degree of Bachelor of Divinity.

481-482. Thesis Seminar.—Prerequisite: six semester hours in the department.  
 PROFESSOR CANNON

### COURSES ON THE MIDDLE AND FAR EAST

In addition to the courses offered in the Department of History of Religion and Missions of the School of Religion, attention is directed to the following courses in various departments of Duke University dealing with Middle and Far Eastern civilizations.

History of the Foreign Relations of the United States.—6 s.h.	PROFESSOR CLYDE
History of Modern Japan.—3 s.h.	PROFESSOR CLYDE
History of Modern China.—3 s.h.	PROFESSOR CLYDE
Political Institutions of the Far East.—3 s.h.	DR. LINEBARGER
International Politics of the Far East.—3 s.h.	DR. LINEBARGER
Chinese Philosophy.—3 s.h.	ACTING PROFESSOR DUBS
Indian Philosophy.—3 s.h. [Not offered in 1939-40]	PROFESSOR WIDGERY

## GENERAL INFORMATION

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### FEES

Tuition is remitted to students matriculated in the School of Religion, for which they are expected to render from time to time service which shall not interfere with their work in the School of Religion.

Each student is assessed per semester as follows:

Matriculation Fee .....	\$25.00
Library Fee .....	5.00
Athletic Fee .....	5.00
Publication Fee (optional) .....	2.50
Hospital Fee .....	5.00
Damage Fee .....	1.00

Each student is assessed, in the last semester before a degree is conferred, a Commencement Fee of \$3.00 and a Diploma Fee of \$5.00. The latter fee is refunded if the diploma is not awarded.

### LATE REGISTRATION

Students matriculating in either semester at a date later than that prescribed in the catalogue shall pay to the Treasurer of the University a penalty of \$5.00

### ROOMS

All rooms in the dormitories are provided with heat, water, and electric light. Each student furnishes his own blankets, sheets, pillow-slips, towels, and pillows. Students must furnish their own electric lamps, which can be purchased from the University Store.

Rooms for a given year may be engaged at the office of the Director in the Business Division at any time before May 15 of the preceding year. Every student who wishes to retain his room for the succeeding year must notify the office of the Director in the Business Division on or before May 15. All rooms which have not been signed for on or before May 15 will be considered vacant for the succeeding year. A reservation is canceled, and the University is free to rent the room to other students, unless a deposit of \$25 for each proposed occupant, in part payment of the rent, is made by August 1. Further information concerning the rental of rooms can be secured from the Registrar of the School of Religion.

### BOARDING HALLS

The University dining hall in the University Union has accommodations for all the resident men students. It is the policy of the University to furnish board to the students at actual cost. Board may be secured at the Union for an amount not to exceed \$25 per month. The Union

is the logical center of student activities, and all male students are advised to board in its supervised halls.

### STUDENT AID

Scholarships are available for students, the terms of which may be ascertained by correspondence with the Registrar of the School of Religion. Aid is also given in securing positions in churches. Students who need financial help may be assured that the administration will do all in its power to give the necessary assistance.

### THE LIBRARY

The School of Religion has its own library, conveniently housed in the School of Religion Building. The Library, which contains materials dealing with the subject of religion, already numbers nearly thirty thousand volumes. It has been carefully selected and is the equivalent in working efficiency of many libraries which are much larger. It is already rich in complete files of the more important journals and periodicals, in sets containing source materials for the study of the history of religion and missions, in facsimiles of the more important manuscripts of the New Testament, and in source materials in the field of American church history. The Library is being rapidly expanded. One of the outstanding possessions of the Library is a magnificent Greek manuscript of the thirteenth or fourteenth century containing the entire text of the New Testament.

Besides this special library, students of the School of Religion have the use of the General Library of the University, the Library of the School of Law, and the Library of the School of Medicine. All these libraries are located near the School of Religion Building.

### FACILITIES FOR ADVANCED STUDY IN THE AMERICAN SCHOOLS OF ORIENTAL RESEARCH

The School of Religion of Duke University is one of the supporting members of the American Schools of Oriental Research. This grants to students in the School of Religion the privilege of attending the American School in Jerusalem or the one in Bagdad without charge for tuition. They are also able to compete for the financial aids that are offered annually by the Schools. These consist of four fellowships, the stipends depending upon available funds.

### RELIGIOUS LIFE

The students of the School of Religion are expected to attend the regular University Chapel services which are held on Tuesday, Wednesday, and Friday of each week. Special chapel services for the School of Religion are held each Monday and Thursday.

In this, as in other features of the University life, the students of the School of Religion are urged to identify themselves with the life of the whole student group.



**DATE OF REGISTRATION**

Class work in the School of Religion for the academic session of 1939-40 will begin on Monday, September 25, 1939. The registration of students in the School of Religion will be held on Saturday, September 23, 1939.



# THE SUMMER SCHOOL

1939

First Term: June 12 to July 22

Second Term: July 24 to Sept. 2

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JUNALUSKA SUMMER SCHOOL, INC.

(AFFILIATED WITH DUKE UNIVERSITY)

June 9 to July 21

## OFFICERS OF ADMINISTRATION

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WILLIAM PRESTON FEW, A.B., A.M., LL.D.,

PRESIDENT OF DUKE UNIVERSITY

ROBERT LEE FLOWERS, A.M., LL.D.,

VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

WILLIAM HANE WANNAMAKER, A.B., A.M., Litt.D.,

VICE-PRESIDENT OF DUKE UNIVERSITY AND MEMBER OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

HOLLAND HOLTON, A.B., J.D.

DIRECTOR OF THE SUMMER SCHOOL AND CHAIRMAN OF THE FACULTY  
COMMITTEE ON THE SUMMER SCHOOL

ARTHUR MARCUS PROCTOR, A.B., A.M., Ph.D.,

ASSOCIATE DIRECTOR OF THE SUMMER SCHOOL

WILLIAM THOMAS LAPRADE, A.B., Ph.D.,

MEMBER OF THE FACULTY COMMITTEE OF THE SUMMER SCHOOL

CALVIN BRYCE HOOVER, A.B., Ph.D., Litt.D.,

DEAN OF THE GRADUATE SCHOOL OF ARTS AND SCIENCES

ALICE MARY BALDWIN, A.B., A.M., Ph.D.,

DEAN OF THE WOMAN'S COLLEGE

WALTER KIRKLAND GREENE, A.B., A.M., Ph.D.,

DEAN OF UNDERGRADUATE INSTRUCTION

MARY GRACE WILSON, A.B.,

SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN

ANNE GARRARD, A.B., A.M.,

(Dean of Students, Greensboro College),

SOCIAL DIRECTOR AND ACTING DEAN OF WOMEN (Second Term)

FLORA MARIE MEREDITH, A.B.,

(Dean of Women, Hendrix College, Arkansas),

ASSISTANT DEAN OF WOMEN (in charge of East Campus)

## FACULTY OF THE SUMMER SCHOOL

---

- ADAMS, DONALD KEITH; A.B., Pennsylvania State College; A.M., Harvard; Ph.D., Yale; PSYCHOLOGY (Duke University).
- BERRY, EDWARD WILLARD; A.B., Ph.D., Johns Hopkins; GEOLOGY (Duke University).
- BIGELOW, LUCIUS AURELIUS; B.S., Massachusetts Institute of Technology; Ph.D., Yale; CHEMISTRY (Duke University).
- BIRD, HAROLD CRUSIUS; Ph.B., C.E., Yale; CIVIL ENGINEERING (Duke University).
- BLACKBURN, WILLIAM MAXWELL; A.B., Furman; B.A., M.A., Oxford; Yale, 1921-22, 1930-31; ENGLISH (Duke University).
- BLOMQUIST, HUGO LEANDER; B.S., University of Chicago; Pasteur Institute, 1919; Ph.D., University of Chicago; BOTANY (Duke University).
- BROWNELL, WILLIAM ARTHUR; A.B., Allegheny College; A.M., Ph.D., University of Chicago; EDUCATIONAL PSYCHOLOGY (Duke University).
- CANNON, JAMES, III; A.B., Duke; A.M., Princeton; Th.B., Th.M., Princeton Theological Seminary; Edinburgh University, 1919; Garrett, 1924; D.D., Birmingham-Southern College; RELIGION (Duke University).
- CARLITZ, LEONARD; A.B., Ph.D., University of Pennsylvania; MATHEMATICS (Duke University).
- CARR, JOHN WINDER, JR.; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- CHILDS, BENJAMIN GUY; A.B., A.M., University of Virginia; University of Virginia, 1921-22; EDUCATION (Duke University).
- CLYDE, PAUL HIBBERT; A.B., A.M., Ph.D., Stanford; HISTORY (Duke University).
- COLE, ROBERT TAYLOR; A.B., University of Texas; A.M., Ph.D., Harvard; POLITICAL SCIENCE (Duke University).
- COWPER, FREDERICK AUGUSTUS GRANT; A.B., A.M., Trinity College (Conn.); University of Strassburg, 1906-07; University of Geneva, 1907-08; Ph.D., University of Chicago; FRENCH (Duke University).
- CUNNINGHAM, BERT; B.S., M.S., Illinois Wesleyan; A.M., Duke; Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- GARDINER, ANN HENSHAW; R.N.; Grad. Shepherd Normal School (W. Virginia); B.S., Columbia; University of Washington Medical School of Hygiene, 1924-25; M.S., Kansas State College; HYGIENE (Duke University).
- GERGEN, JOHN JAY; A.B., A.M., University of Minnesota; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- GILBERT, ALLAN H.; B.A., Cornell; A.M., Yale; Ph.D., Cornell; ENGLISH (Duke University).
- GOHDES, CLARENCE; A.B., Capital; A.M., Ohio State; A.M., Harvard; Ph.D., Columbia; ENGLISH (Duke University).

- GRAY, IRVING EMERY; B.S., Massachusetts State College; M.S., Ph.D., University of Wisconsin; ZOOLOGY (Duke University).
- HALL, WILLIAM HOLLAND; A.B., A.M., Duke; B.C.E., University of Michigan; M.S.C.E., University of Wisconsin; ENGINEERING (Duke University).
- HAMILTON, EARL JEFFERSON; B.S., Mississippi State College; A.M., Ph.D., Harvard; ECONOMICS (Duke University).
- IRVING, WILLIAM HENRY; B.A., Mt. Allison University; B.A., M.A., Oxford; Ph.D., Harvard; ENGLISH (Duke University).
- JENSEN, HOWARD EIKENBERRY; A.B., A.M., University of Kansas; B.D., Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- JORDAN, BRADY RIMBEY; Litt.B., Princeton; Ph.D., University of Wisconsin; FRENCH (Duke University).
- KRAMER, PAUL JACKSON; A.B., Miami (Ohio); M.S., Ph.D., Ohio State University; BOTANY (Duke University).
- KRUMMEL, CHARLES ALBERT; Ph.B., Central Wesleyan College; Ph.M., Syracuse; Ph.D., University of Wisconsin; University of Marburg, 1910; GERMAN (Duke University).
- LANNING, JOHN TATE; A.B., Duke; A.M., University of California; University of London, 1926-27; Ph.D., University of California; HISTORY (Duke University).
- LAPRADE, WILLIAM THOMAS; A.B., Washington Christian College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- LUNDEBERG, OLAV K.; A.B., St. Olaf College; A.M., Ph.D., University of Minnesota; Université de Montpellier, 1918; Centro de Estudios Históricos, Madrid, 1929; SPANISH (Duke University).
- MAUGHAN, WILLIAM; B.S., University of Minnesota; M.F., Yale; FORESTRY (Duke University).
- MITCHELL, FRANK KIRBY; A.B., Millsaps; A.M., University of Michigan; Oriel College, Oxford, 1921-24; ENGLISH (Duke University).
- MYERS, HIRAM EARL; A.B., Duke; S.T.B., S.T.M., Boston University; RELIGION (Duke University).
- NIELSEN, WALTER McKINLEY; B.S., Ph.D., University of Minnesota; PHYSICS (Duke University).
- PATTON, LEWIS; A.B., Furman; Ph.D., Yale; ENGLISH (Duke University).
- PEARSE, ARTHUR SPERRY; B.S., A.M., University of Nebraska; Ph.D., Harvard; ZOOLOGY (Duke University).
- PROCTOR, ARTHUR MARCUS; A.B., Duke; A.M., Ph.D., Columbia; EDUCATION (Duke University).
- RANKIN, ROBERT STANLEY; A.B., Tusculum College; A.M., Ph.D., Princeton; POLITICAL SCIENCE (Duke University).
- RANKIN, WILLIAM WALTER; B.E., North Carolina State College of Agriculture and Engineering; A.M., University of North Carolina; Harvard, 1914-15; Columbia, 1919-21; MATHEMATICS (Duke University).
- SCATES, DOUGLAS EDGAR; A.B., Whitworth; Ph.D., University of Chicago; EDUCATION (Duke University).



- SCHUMACHER, FRANCIS X.; B.S., University of Michigan; FORESTRY (Duke University).
- SHIPMAN, GEORGE A.; B.A., M.A., Wesleyan University; Ph.D., Cornell; POLITICAL SCIENCE (Duke University).
- SMITH, HILRIE SHELTON; A.B., Elon College; Ph.D., Yale; D.D., Defiance College; RELIGIOUS EDUCATION (Duke University).
- SPENCE, HERSEY EVERETT; A.B., A.M., B.D., Duke; D.D., Asbury College; RELIGION (Duke University).
- SYDNOR, CHARLES SACKETT; A.B., Hampden-Sydney College; Ph.D., Johns Hopkins; HISTORY (Duke University).
- WEBB, ALBERT MICAHAH; A.B., A.M., Yale; Sorbonne (Paris) and Madrid, 1907-08; Sorbonne, 1923; FRENCH (Duke University).
- WILSON, ROBERT NORTH; A.B., Haverford College; M.S., University of Florida; Harvard, 1905-06; University of Illinois, 1923-24; Yale, 1931-32; CHEMISTRY (Duke University).
- ZENER, KARL EDWARD; Ph.B., University of Chicago; A.M., Ph.D., Harvard; National Research Fellow in Psychology, University of Berlin, 1926-27; PSYCHOLOGY (Duke University).
- 
- ALLEN, DONALD CAMERON; A.B., University of Illinois; A.M., Washington University; Ph.D., University of Illinois; ENGLISH (Duke University).
- BAUGH, ALBERT CROLL; A.B., A.M., Ph.D., University of Pennsylvania; ENGLISH (University of Pennsylvania).
- BLACK, MARTIN LEE, JR.; A.B., Duke; M.B.A., Northwestern; C.P.A., Illinois and North Carolina; ACCOUNTING (Duke University).
- BOND, GEORGE WILLIAM; B.S., University of Arkansas; A.M., University of Chicago; Ph.D., Columbia; EDUCATION (Southeastern Louisiana College).
- BRIDGERS, FURMAN ANDERSON; A.B., Duke; A.M., University of Chicago; University of Chicago, 1928-29, 1933; FRENCH (Duke University).
- BRINKMANN, HEINRICH WILHELM; A.B., Stanford; A.M., Ph.D., Harvard; MATHEMATICS (Swarthmore College).
- CALLCOTT, WILFRID HARDY; A.B., Southwestern; A.M., Ph.D., Columbia; HISTORY (University of South Carolina).
- CARPENTER, DAVID WILLIAMS; A.B., A.M., Ph.D., Duke; PHYSICS (Duke University).
- CONSTANT, FRANK WOODBRIDGE; B.S., Princeton; Ph.D., Yale; PHYSICS (Duke University).
- DAVIS, GIFFORD; A.B., Bowdoin College; A.M., Ph.D., Harvard; SPANISH (Duke University).
- DEVYVER, FRANK TRAVER; A.B., A.M., Oberlin College; A.M., Ph.D., Princeton; ECONOMICS (Duke University).
- DRAPER, JOHN WILLIAM; A.B., A.M., New York University; A.M., Ph.D., Harvard; ENGLISH (University of West Virginia).

- EASLEY, HOWARD; A.B., Union University, Tenn.; A.M., Ph.D., George Peabody College; EDUCATIONAL PSYCHOLOGY (Duke University).
- EVANS, JAMES WALTER; B.S., M.S., Kansas State Teachers College; University of Iowa, 1933-35, 1937-38; EDUCATION (Director of Instruction and Research, St. Joseph, Mo., Schools).
- FOWLKES, JOHN GUY; A.B., Ouachita College; A.M., Ph.D., Columbia; EDUCATION (University of Wisconsin).
- GAMBLE, GUY C.; B.S., Ph.D., Teachers College, Columbia; EDUCATION (Senior Supervisor, Social Studies, W.P.A.).
- GODARD, JAMES McFATE; A.B., Park College; A.M., Duke; Duke, 1930-31, 1932-36; EDUCATION (Queens-Chicora College).
- GOLDTHORPE, J. HAROLD; A.B., Hamline; A.M., University of Chicago; Ph.D., Columbia; EDUCATION (Research Staff, American Council on Education).
- GREEN, FLETCHER M.; Ph.B., Emory; A.M., Ph.D., University of North Carolina; HISTORY (University of North Carolina).
- GRIGGS, EARL LESLIE; B.A., University of Colorado; A.M., Columbia; Ph.D., University of London; ENGLISH (University of Michigan).
- GWYNN, JOHN MINOR; A.B., A.M., University of North Carolina; Ph.D., Yale; EDUCATION (University of North Carolina).
- GWYNN, PRICE HENDERSON, JR.; A.B., A.M., University of North Carolina; B.D., Yale Divinity School; Ph.D., Yale; EDUCATION (Davidson College).
- HALE, ORON JAMES; University of Washington (Seattle); A.M., Ph.D., University of Pennsylvania; HISTORY (University of Virginia).
- HAUSER, CHARLES ROY; B.S., M.S., University of Florida; Ph.D., University of Iowa; CHEMISTRY (Duke University).
- HAWKES, EVELYN JONES; A.B., A.M., Duke; Ph.D., University of Pennsylvania; SECONDARY EDUCATION (New Jersey College for Women).
- HIGHSMITH, JOHN HENRY; A.B., A.M., Duke; Columbia, 1904-06; LL.D., Catawba College; D.Ed., Wake Forest College; PUBLIC SCHOOL ADMINISTRATION (Director, Division of Instructional Service, North Carolina Department of Public Instruction).
- HILL, LAWRENCE FRANCIS; A.B., M.A., Ph.D., University of California; HISTORY (Ohio State University).
- HILLMAN, JAMES ELGAN; B.Ped., Berea College; B.S., A.M., Ph.D., George Peabody College; EDUCATION (Director of Professional Service, North Carolina Department of Public Instruction).
- HOLLIS, ERNEST VICTOR; B.S., M.S., Mississippi State College; A.M., Ph.D., Columbia; EDUCATION (College of the City of New York).
- HOLSOPPLE, JAMES QUINTER; B.S., Ph.D., Johns Hopkins; National Fellow, Johns Hopkins; EDUCATIONAL PSYCHOLOGY (Chief Psychologist, New Jersey State Hospital).
- HOWARD, GEORGE; A.B., Davidson College; A.M., Ph.D., Columbia; EDUCATION (Supervisor Secondary Schools, Canal Zone).
- HUGHES, MERRITT YERKES; A.B., Boston University; M.A., Edinburgh University; Ph.D., Harvard; ENGLISH (University of Wisconsin).

- HURLEY, LEONARD BURWELL; A.B., A.M., Duke; University of Chicago; Columbia, 1922; Ph.D., University of North Carolina; ENGLISH (Woman's College of University of North Carolina).
- JENKINS, RAYMOND; A.B., Cornell; Ph.D., Yale; ENGLISH (Catawba College).
- JERNIGAN, CHARLTON CONEY; A.B., A.M., Ph.D., Duke; GREEK (Woman's College, University of North Carolina).
- JONES, FREDERICK L.; A.B., Furman; A.M., Ph.D., Cornell; ENGLISH (Mercer University).
- JORDAN, ARCHIBALD CURRIE; A.B., Duke; A.M., Columbia; Columbia, 1924-25; ENGLISH (Duke University).
- JORDAN, ARTHUR MELVILLE; A.B., Randolph-Macon; A.M., Duke; Ph.D., Columbia; EDUCATIONAL PSYCHOLOGY (University of North Carolina).
- LANDON, CHARLES E.; A.B., A.M., University of Kansas; Ph.D., University of Illinois; ECONOMICS (Duke University).
- LANGSAM, WALTER CONSUELO; B.S., College of the City of New York; A.M., Ph.D., Columbia; HISTORY (Union College).
- LEISY, ERNEST E.; A.B., University of Kansas; A.M., University of Chicago; Ph.D., University of Illinois; ENGLISH (Southern Methodist University).
- LINEBARGER, PAUL M. A.; A.B., George Washington University; A.M., Ph.D., Johns Hopkins; POLITICAL SCIENCE (Duke University).
- MANCHESTER, ALAN KREBS; A.B., Vanderbilt; A.M., Columbia; Ph.D., Duke; HISTORY (Duke University).
- MAXWELL, WILLIAM CARY; A.B., A.M., Duke; Ph.D., University of Heidelberg; GERMAN (Duke University).
- MILES, EDWARD ROY CECIL; B.S., Georgia School of Technology; A.M., Harvard; Ph.D., Rice Institute; MATHEMATICS (Duke University).
- MONTAGUE, LUDWELL LEE; A.B., Virginia Military Institute; A.M., University of Pennsylvania; Ph.D., Duke; HISTORY (Virginia Military Institute).
- MOUZON, JAMES CARLISLE; A.B., Southern Methodist University; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- OOSTING, HENRY JOHN; A.B., Hope College; M.S., Michigan State College; Ph.D., Minnesota University; BOTANY (Duke University).
- ODELL, CHARLES WATTERS; A.B., A.M., DePauw; Ph.D., University of Illinois; EDUCATIONAL PSYCHOLOGY (University of Illinois).
- OVERN, ALFRED VICTOR; A.B., M.S., Ph.D., University of Minnesota; EDUCATION (University of North Dakota).
- PARKS, EDD WINFIELD; A.B., Harvard; A.M., Ph.D., Vanderbilt; ENGLISH (University of Georgia).
- PORTERFIELD, AUSTIN L.; Oklahoma City University; A.M., Drake; B.D., Phillips; Ph.D., Duke; SOCIOLOGY (Texas Christian University).

- PUNKÉ, HAROLD HERMAN; B.S., M.S., University of Illinois; Ph.D., Chicago; EDUCATION (Georgia State Woman's College).
- QUYNN, DOROTHY MACKAY; A.B., A.M., University of California; Docteur de l'Université de Paris; HISTORY (Duke University).
- QUYNN, WILLIAM ROGERS; A.B., A.M., University of Virginia; Ph.D., Johns Hopkins; FRENCH (Duke University).
- ROBERT, JOSEPH CLARKE; B.A., Furman; A.M., Ph.D., Duke; HISTORY (Duke University).
- ROBERTS, JOHN HENDERSON; A.B., Ph.D., University of Texas; National Research Fellow, University of Pennsylvania, 1929-30; MATHEMATICS (Duke University).
- ROOT, PAUL ADELBERT; A.B., Asbury College; B.D., Ph.D., Duke; SOCIOLOGY (Southern Methodist University).
- SANDERS, CHARLES RICHARD; B.Ph., A.M., Emory; Ph.D., University of Chicago; ENGLISH (Duke University).
- SAYLOR, JOHN HENRY; A.B., Southern Methodist University; A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- SHIELDS, JOHN HERMAN; A.B., A.M., University of Texas; Columbia, 1924-26; ACCOUNTING (Duke University).
- SLAY, RONALD JAMES; B.S., University of Mississippi; A.M., Ph.D., Columbia; TEACHING OF SCIENCE (East Carolina Teachers College).
- SMITH, CULVER HAYGOOD; A.B., Duke; A.M., Yale; Ph.D., Duke; HISTORY (University of Chattanooga).
- SPENCER, HAZELTON; A.B., Boston University; A.M., Ph.D., Harvard; ENGLISH (Johns Hopkins University).
- SPRINGER, JOHN YOUNG; A.B., M.B.A., Stanford; ECONOMICS (Duke University).
- STEPHENSON, WENDELL HOLMES; A.B., A.M., Indiana; Ph.D., University of Michigan; HISTORY (Louisiana State University).
- STEWART, GEORGE RIPPEY; A.B., Princeton; M.A., University of California; Ph.D., Columbia; ENGLISH (University of California, Berkeley).
- STUART, GRAHAM; A.B., Western Reserve; A.M., Ph.D., University of Wisconsin; POLITICAL SCIENCE (Stanford University).
- SUGDEN, HERBERT WILFRID; A.B., Harvard; A.M., Ph.D., Duke; ENGLISH (Duke University).
- THOMPSON, EDGAR TRISTRAM; A.B., University of South Carolina; A.M., University of Missouri; Ph.D., University of Chicago; SOCIOLOGY (Duke University).
- TIREMAN, LOYD SPENCER; B.A., Upper Iowa University; A.M., Ph.D., University of Iowa; EDUCATION (University of New Mexico).
- WALLIN, JOHN EDWARD WALLACE; A.B., Augustana; A.M., Ph.D., Yale; EDUCATIONAL PSYCHOLOGY (Director of Special Education and Mental Hygiene, Delaware State Department of Public Instruction).

- WARD, CHARLES EUGENE; A.B., Baker; A.M., Ph.D., Duke; ENGLISH (Duke University).
- WILSON, FREDERICK ELIPHAZ; A.B., Oberlin College; A.M., Columbia; University of Leipzig, 1916-17; Harvard, 1922-23; GERMAN (Duke University).
- WOODY, ROBERT HILLIARD; Ph.B., Emory; A.M., Ph.D., Duke; HISTORY (Duke University).
- 
- AVILÉS, LUIS ESTEBAN; A.B., Park College; A.M., University of Kansas; Ph.D., University of Illinois; SPANISH (Duke University).
- AYCOCK, THOMAS MALCOLM; B.S., Oklahoma State College; M.S., University of Iowa; HEALTH EDUCATION (Duke University).
- BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31, 1938; EDUCATION (Visiting Instructor, Duke University).
- BERRY, THOMAS SENIOR; S.B., A.M., Ph.D., Harvard; ECONOMICS (Duke University).
- BONNER, LYMAN GAYLORD; A.B., University of Utah; Ph.D., California Institute of Technology; PHYSICS (Duke University).
- BOOKHOUT, CAZLYN GREEN; A.B., St. Stephens College; A.M., Syracuse; Ph.D., Duke; ZOOLOGY (Duke University).
- BRADSHAW, CHARLES KILGO; A.B., Duke; A.M., Ph.D., Harvard; ASSISTANT IN CHEMISTRY (Duke University).
- BROWN, FRANCES; A.B., Agnes Scott College; Ph.D., Johns Hopkins; CHEMISTRY (Duke University).
- BRUINSMA, HENRY A.; B.M., M.M., University of Michigan; MUSIC (Duke University).
- CARPENTER, JAMES MADISON; A.B., A.M., University of Mississippi; Ph.D., Harvard; ENGLISH (Duke University).
- CURTIS, KADER RANDOLPH; B.A., Wake Forest College; M.Ed., Duke; EDUCATION (Superintendent of Wilson County and City Schools).
- DOW, NEAL; A.B., Kenyon College; A.M., Ph.D., University of Pennsylvania; FRENCH (Duke University).
- DRESSEL, FRANCIS GEORGE; B.S., Michigan State College; M.S., University of Michigan; Ph.D., Duke; MATHEMATICS (Duke University).
- EDDY, G. NORMAN; Th.B., Gordon College; A.M., University of New Hampshire; M.Ed., Springfield College, Duke, 1938-39; SOCIOLOGY (Duke University).
- ESKRIDGE, THOMAS JOSEPH, JR.; A.B., Emory and Henry College; A.M., George Peabody College; Ph.D., Duke; EDUCATION (Lander College).
- HARRIS, ROBERT EDWARD; A.B., A.M., Indiana; JOURNALISM (Los Angeles Junior College).
- HARWELL, GEORGE CORBIN; A.B., A.M., Duke; Duke, 1935-38; ENGLISH (Duke University).



- HILL, DOUGLAS; A.B., Yale; A.M., Ph.D., Princeton; CHEMISTRY (Duke University).
- HOBBS, MARCUS EDWIN; A.B., A.M., Ph.D., Duke; CHEMISTRY (Duke University).
- JOHN, LENORE SUSAN; A.B., York College; A.M., University of Chicago; Chicago, 1927-30; ELEMENTARY EDUCATION (Specialist in Arithmetic, University of Chicago Laboratory School).
- JOHNSON, MYCHYLE W.; A.B., Ph.D., University of Indiana; ZOOLOGY (Duke University).
- KEECH, JAMES MAYNARD; A.B., A.M., Ph.D., Duke; ECONOMICS (Duke University).
- McCLOY, SHELBY THOMAS; A.B., A.M., Davidson College; B.Litt., B.A., Oxford; Ph.D., Columbia; HISTORY (Duke University).
- MacCOLL, SYLVIA HAZELTON; A.B., A.M., Smith College; Ph.D., Duke; PSYCHOLOGY (Duke University).
- MABRY, WILLIAM ALEXANDER; A.B., A.M., Duke; A.M., Harvard; Ph.D., Duke; HISTORY (Duke University).
- MARKS, SALLIE BELLE; A.B., A.M., Columbia; George Washington University, 1938-39; ELEMENTARY EDUCATION (Meredith College).
- MICHAELS, MATILDA OSBORNE; A.B., Duke; A.M., Columbia; ELEMENTARY EDUCATION (Supervisor Durham County Schools).
- PORTER, ESTELLE RAWL; A.B., Winthrop College; Smith College, 1922-23; University of Chicago, 1926-27; ELEMENTARY EDUCATION (Queens-Chicora College).
- RAYMOND, MARY LOIS; A.B., Mount Holyoke College; A.M., Radcliffe College; University of Wisconsin, 1919-20; University of Madrid and University of Paris, 1921-22; School of International Studies, Geneva, 1928; FRENCH (Duke University).
- SIMPSON, WILLIAM HAYS; A.B., Tusculum College; A.M., Ph.D., Duke; POLITICAL SCIENCE (Duke University).
- STROVEN, CARL GERHARDT; A.B., A.M., Stanford; Duke, 1930-31, 1937-39; ENGLISH (Duke University).
- WATSON, KARL BRANTLEY, JR.; B.S., A.B., University of Chattanooga; A.M., Duke; Duke, 1936-38; EDUCATION (Duke University).
- WELFLING, WELDIN WOODROW; A.B., Swarthmore College; A.M., Ph.D., Princeton; ECONOMICS (Duke University).
- WEST, ALFRED THURBER; B.S., Alabama Polytechnic Institute; A.M., University of Alabama; Teacher's Certificate from American Academy of Dramatic Art; ENGLISH (Duke University).
- ALSTON, AUGUSTA MICHAELS; A.B., Duke; DRAWING (Durham Public Schools).
- BOOKHOUT, ELIZABETH CIRCLE; A.B., Randolph-Macon Woman's College; M.S., Wellesley; PHYSICAL EDUCATION (Duke University).
- BRESLOW, DAVID SAMUEL; B.S., College of the City of New York; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).



- DEANS, EDWINA; A.B., North Carolina College for Women; M.Ed., Duke; ELEMENTARY EDUCATION (Evanston, Illinois, Schools).
- MARYOTT, ARTHUR ALLEN; A.B., Duke; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).
- MASON, MARY LOCHER; Diploma, Maryland Institute; Diploma in Fine Arts, Teachers College, Columbia; DRAWING (Durham City Schools).
- PERSONS, WALTER S.; SWIMMING (Duke University).
- RICHARDS, JAMES AUSTIN, JR.; A.B., Oberlin College; Duke, 1938-39; ASSISTANT IN PHYSICS (Duke University).
- STUCKEY, JAMES MORLAN; B.S., Centenary College; A.M., Duke; Duke, 1937-39; ASSISTANT IN CHEMISTRY (Duke University).
- WILLIAMS, JAMES WESLEY; A.B., Duke; B.S., Georgia School of Technology; ASSISTANT IN ENGINEERING (Duke University).
- WILSON, JANE BLISS; A.B., Duke; A.B. Libr. Sci., University of North Carolina; CHILDREN'S LITERATURE (Children's Department, Detroit Public Library).
- YOUNG, DeWALT SECRIST; A.B., Cornell College (Iowa); Duke, 1938-39; ASSISTANT IN CHEMISTRY (Duke University).

## DUKE UNIVERSITY SUMMER SCHOOL

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In 1938 there was a total of 3,513 registrations in Duke University Summer School and affiliated schools. Of these registrations 2,177 students were enrolled in the first term of the Duke University Summer School, and 1,013 the second term; 185 were enrolled in the Junaluska Summer School, Inc., and Junaluska School of Religion at Lake Junaluska; and 138 were enrolled in the Medical School and the School of Nursing. There were 1,334 graduate students the first term, and 843 the second, admitted on the basis of Bachelor's degrees from 316 different colleges and universities. The total enrollment for the summer was drawn from thirty-eight states, as well as the District of Columbia, Puerto Rico, Canada, Cuba, England, China, Japan, and Korea. The larger enrollments were from North Carolina, Pennsylvania, Florida, South Carolina, West Virginia, Georgia, Virginia, Tennessee, Mississippi, New Jersey, Ohio, New York, Kentucky, Maryland, and Alabama in the order named. Public school teachers from twenty-nine states were included in the total.

### CHANGES IN CALENDAR FOR THE SUMMER OF 1939

On account of the growth of the first term of Summer School, there will be no middle term for the summer of 1939. Apparently the first term registration will fill both dormitories and classrooms without making possible any registrations for the middle term.

Since the middle term has been discontinued, the first term instead of beginning Wednesday following the first Sunday in June will begin Monday, June 12, thereby making it possible for students who register in advance to enter classes as late as Friday morning, June 16. Students who enter late, however, are marked absent from classes held prior to their entrance, and the student who has more than four absences cannot receive full credit for the term's work. The five-day postponement in beginning the first term of Summer School means that the second cannot close until September 2. Since many students have found it exceedingly hard to complete twelve weeks' work in one term of Summer School, students are advised to register for only eleven weeks and take advantage of the early examinations closing August 26. This means that the student who enters the first term of Summer School and continues for five weeks of the last term, completes a full "summer quarter," or an exact one-third of the year now required for a Master's degree (see "New Requirements for Master's Degrees").

### ADMISSION

Applicants for admission must have completed a high-school course. As evidence of this, a teacher's certificate of grade as high as North

Carolina elementary will be accepted from teachers with two or more years of experience. Certificates and other credentials must be submitted to the Committee on the Summer School by the time of registration. Each student who wishes to enroll for graduate credit should request the proper officer of the university or college he attended to send directly to the Dean of the Graduate School an official transcript of his undergraduate record and of any graduate credit he may have. This transcript should be furnished by May 25 for enrollment in the first summer session and by July 1 for enrollment in the second summer session. An application blank for admission to graduate courses is available upon request for those who contemplate study toward an advanced degree. Undergraduate students should apply to the Director of the Summer School for a special blank to be signed by the dean of the college to which they desire their credits sent, certifying approval of the courses for which application is made. The Summer School reserves the right to reject any application or to cancel any registration without assignment of reason.

### CREDITS

Professional credits towards teachers' certificates are granted by the various state boards of education, each in accordance with its own carefully planned rules. Teachers should consult the rules laid down by their State Board of Education before enrolling for certification credit. Any student, however, whose work is of such quality as to deny him credit toward a degree, fails to receive "professional" credit.

College credits are offered as follows: A course of five hours a week for six weeks counts for two semester hours of credit, a course of seven and one-half hours a week for six weeks counts for three semester hours of credit, and a course of ten hours a week for six weeks counts for four semester hours of credit in Duke University. No student is allowed to take more than fifteen hours of work a week without the consent of the Director and of the instructor in whose department the student expects to do his major work.\* Except in the case of elementary laboratory science, in which eight semester hours may be completed in seven weeks, the University will not accept credit beyond six semester hours earned in one term toward the Bachelor's degree. Graduate students are not under any circumstances permitted to enroll for more than six semester hours in a summer school of six weeks. They forfeit graduate credit by undertaking more than six semester hours of work, even though part of the work may carry undergraduate credit only. A student of senior standing, however, may elect as many as eight semester hours of such elementary-skill work as drawing, public school music, and the like, or courses primarily for Freshmen and Sophomores, and obtain such professional credit as his State Department of Education will allow, not to exceed the maximum eight stated. The North Carolina State Depart-

\* No student liable to suspension from the University under its rules regarding failure is permitted to enroll in the Summer School.

ment of Education disapproves of more than seven semester hours in one term of six weeks.

The nature of the credit allowed for each course is indicated by the number of the course. Courses numbered 1-49 are primarily for Freshmen, or Freshmen and Sophomores; courses numbered 50-99 are ordinarily for Sophomores, or Sophomores and Juniors; courses numbered 100-199 are for Juniors and Seniors; courses numbered from 200-299 are for Seniors and graduates; and courses numbered from 300 up are for graduate students only and are of very limited enrollment. Courses numbered from 200 up are limited in enrollment to twenty-five students, and during the summer consist almost exclusively of graduate students.

### NEW REQUIREMENTS FOR MASTER'S DEGREES

The Southern University Conference consisting of leading educational institutions of the South interested in graduate work has agreed that Master's degrees in summer school should represent a full year of residence as the term residence is understood during the academic year, exclusive of holidays and other interruptions of the academic year. This means a minimum period of thirty-three weeks and has these effects among others:

1. The extended period (of thirty-three weeks instead of thirty) makes it possible to give students preparing to write Master's theses a better opportunity to prepare for their thesis writing. In some departments research courses in which the student may do certain elementary preliminary work on his thesis have already been provided.

2. The period of thirty-three weeks conveniently divides into three periods of eleven weeks each, making it possible for the Summer School to begin nearly a week later and give the student a full period of eleven weeks well before the last day of August. For some time it has been hard to work in a full period of twelve weeks without serious inconvenience to many students because of early entrance for the first term or getting away late from the last term. Under the new plan students are advised not to try more than eleven weeks (eleven semester hours of credit) in one summer. However, for those students working under the old rules who wish to obtain twelve weeks' credit this summer, a full period of twelve weeks has been provided as announced in this bulletin.

3. The extended period makes possible a revision of the Master of Education degree in such a way as to abolish the thesis requirement and substitute work of probably greater value to the student. The requirements of the new Master of Education degree are set forth in the following paragraphs. It will be observed that they are probably more difficult than the old requirements, but the good student will probably have more when he completes them than he would have had under the old requirements including a thesis.

Students who started Master's degrees under regulations enforced prior to 1938 will have the normal time in which to complete their degrees under

the old plan. The new requirements are sufficiently different from the old to make it hard for students with more than twelve semester hours of credit under the old plan to transfer to the new without loss. Any one who transfers will be responsible for a minimum of thirty-three semester hours, or a residence period of thirty-three weeks. (Under "Graduate Instruction" two pages further along in this bulletin, the details of the new requirements are set forth.) The principal changes in the requirements for the Master of Arts degree are the new minimum residence period of thirty-three weeks (five and one-half terms of six weeks, or three "quarters" of eleven weeks), the more specific statement of undergraduate prerequisites (see the introductory statements under each department of instruction that offers a Master's sequence in Summer School), the requirement in most departments of a pre-thesis research course, in which, however, the student will ordinarily have some opportunity to get a start upon his thesis. This, in effect, gives the student nine weeks of supervision for his thesis at the same time that it clears up the status of some of the research courses.

The changes in the Master of Education requirements are more radical. They not only require a minimum residence period of three "quarters" or five and one-half summer terms of six weeks, but they abolish the thesis requirement heretofore made and substitute the following work with final written examination upon each part:

(A) Four courses intended to help the student learn to read independently and obtain a basic understanding of education and the school, these courses being conducted on a plane analogous to Honors reading and described as follows:

**Education S300.**—The place of educational research, its methods of procedure, evaluation of results, special problems, etc.

**Education S304.**—The school as an institution—the place of the school in society, its history, and philosophy.

**Education S305.**—The nature, function, and organization of the curriculum.

**Education S317.**—The psychological principles of education—an advanced study of teaching, learning, and the learner.

(B) The work of the minor department, including any undergraduate prerequisite the student finds it necessary to study by supervised outside reading. (For example, many teachers of history and social studies have not had undergraduate work in government or economics or sociology, yet they wish to take their minor work in this missing department in order that they may have a better background for their teaching. Under the new plan, the Summer School can encourage this desirable strengthening of preparation in the subject matter by giving reading lists based on the preliminary undergraduate work in order that the student may have the background to go on with the minor of his choice. It would seem that a teacher of American history, for example, can by independent reading and a minimum of supervision obtain the elementary knowledge of American government necessary as a basis for minor work. It is



the policy of the Summer School to encourage through the Master of Education degree independent reading as a basis for the minor as well as for the four "core" courses listed above.)

(C) Carefully defined major work in (a) public school administration, (b) public school supervision, (c) elementary education, or (d) secondary education, as the professional major. (It will be observed that the degree is intended for those who definitely desire their work for professional purposes. The Master of Education degree is, therefore, not offered with a major in educational psychology or history of education. Students in these two fields would be expected to enroll for the Master of Arts degree.)

It is apparent that students in education are offered a choice between the Master of Arts degree with a major in education and the Master of Education degree. Either degree may be completed within a minimum residence of three summer "quarters" of eleven weeks each, or five and a half summer terms of six weeks each. Both degrees are administered by the Graduate School, and only graduate courses are approved for the degrees. Students who subsequently decide to go on to the Doctor of Philosophy degree may have their credits for either Master's degree evaluated toward the higher degree.

### THESIS WRITING IN SUMMER SCHOOL

Since Duke University grants no Master of Arts degree except upon completion of a satisfactory thesis, every candidate for that degree who expects to complete his work in Summer School should as soon as possible after completing his first term of residence choose a field in which he desires to write a thesis and confer with some instructor offering graduate courses in that field. The following points should be kept clearly in mind when arrangements are made for thesis supervision:

1. The subject of the thesis must be approved by the instructor who undertakes the supervision. The instructor's decision as to whether the topic is suitable, or the student is prepared to develop it, or the instructor prepared to supervise it, is final.

2. A student may enroll for six semester hours of residence credit towards a thesis or for less, in one term of six weeks. If he enrolls for only three semester hours he may enroll also for a course of three semester hours, but he cannot enroll for a total of more than six semester hours of credit, including residence toward his thesis. Completion of six semester hours of residence toward his thesis does not guarantee the satisfactory completion of the thesis, which must be acceptable to the instructor supervising it and to a committee representing the Council on Graduate Instruction. Students who do not complete their theses the first term they register for supervision have the privilege of registering a second term upon payment of regular dues, but are not required to do so. Since the numbers permitted to enroll in thesis seminars are strictly limited, such students are not permitted to register for a third term of supervision.

3. A student may either enroll in a specifically designated "thesis" course or, if his preparation meets the approval of the instructor in charge, attach himself to some regularly offered course in his field of study and report periodically to the instructor offering the course.



4. A student enrolling for thesis residence credit in regular course pays the same fees as other students during the summer of residence. At the time of graduation he pays the same diploma and commencement fees as other students and a thesis supervision fee of \$25.

5. Students enrolling for thesis supervision during the Summer School are expected to complete their theses largely during the summer of enrollment or some subsequent summer term. The instructor with whom they enroll is not under obligation to give active supervision during the academic year, although instructors are willing to give a reasonable amount of attention to theses practically complete. Similarly, instructors in Duke University who are not teaching in the Summer School are not expected to undertake the supervision of theses written by summer school students.

6. Students of the academic year who do not complete theses begun prior to Summer School are not accepted for summer school enrollment unless their subjects are in the field of some thesis seminar or other course offered by an instructor who recommends that such students be assigned to his supervision during the summer. Instructors who are employed for full time by the Summer School are specifically requested not to carry over into the summer thesis students whose subjects are not properly a part of work such instructors are offering in the Summer School.

### FEES

Teachers in active full-time service in schools and colleges are exempt from tuition fees for as many as four terms of six weeks in a period of six years. After their fourth term they pay regular tuition charges. All other students are charged a tuition fee of \$3.00 for each college-credit hour, or \$4.00 for each semester hour, maximum tuition being \$24.00 for six weeks, or \$30.00 for courses running seven weeks. All students, teachers included, pay a registration fee of \$17.50 per term. Students in the sciences pay the laboratory fees required in regular term, and students writing theses pay the regular commencement charges at the time of receiving their degrees, and the special supervision fee of \$25.00.

Major expenses may be estimated as follows for each term:

Registration .....	\$17.50
Room-rent and board .....	47.50
Recreation ticket .....	2.00
Total major expenses to teachers .....	<u>\$67.00</u>

In the men's dormitories, as has been stated, the charge for rooms is one dollar less, making the total major expenses for occupants \$66.00. To these totals should be added the tuition fee of \$24.00 charged students other than teachers in the public schools and also charged teachers who have already received four terms exemption, about \$7.00 for books, and probably \$3.00 for miscellaneous expenditures. All claims for exemption from tuition should be filed at the time of registration.

## COURSES OF INSTRUCTION

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### EXPLANATIONS AND ABBREVIATIONS

Classes meet daily five times per week for six weeks unless otherwise indicated. Classes that meet for sixty-minute periods are indicated as carrying two semester hours of credit. Classes meeting eighty-five-minute periods daily count for three semester hours except where credits are stated otherwise. Courses are arranged alphabetically by departments. The course numbers are the same numbers used in describing courses in the regular term, with the letter "S" preceding; for example, Chemistry S1 would correspond to Chemistry 1 of the regular term.

N.B.—Different State Departments of Education grant professional credit for various courses in accordance with their own carefully defined rules. Every student should inquire carefully at or before registration as to what professional credit is allowed for each course in his state.

### THESIS COURSES FOR MASTER'S DEGREE CANDIDATES

It is important for every candidate for a Master of Arts degree to plan for his thesis as soon as possible after he completes his first summer school. (See suggestions for planning theses, pages 22-23, this bulletin.) Special attention is called to Education S234X, S300, S300X, S309, S322, S333X, Chemistry S275X, English S301, S307X, S308X, S327, S329, S331, French S340, History S306X, S308B, S315, S317, S325, S330, S333, S337, Mathematics S389X, S390X, Physics S353X, Religion S366, Sociology S340, Spanish S372, and Zoology S353. A properly qualified student, however, may with the approval of the instructor and the head of his department attach himself to any graduate course for thesis supervision.

### BIOLOGY

See courses listed under Botany and Zoology.

#### BOTANY

- S214. Structure and Classification of Algae and Fungi.—3 s.h. Mr. BLOMQUIST  
S225. Special Problems.—*Credit to be arranged.* STAFF  
S252. Plant Physiology. Mr. KRAMER  
S255. Advanced Taxonomy.—3 s.h. Mr. BLOMQUIST  
S359. Research in Botany.—*Credit to be arranged.* STAFF

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*The following courses are planned at the Marine Laboratory in Beaufort, N. C.:*

- S225. Special Problems: Ecology, Taxonomy. Mr. OOSTING  
S256. Plant Ecology. Mr. OOSTING  
S359. Research: Ecology, Taxonomy. Mr. OOSTING

For particulars as to expense, etc., write the Director of the Summer School or Dr. H. L. Blomquist, Chairman of the Botany Department, Duke University, after April 15. If for any reason these courses offered at Beaufort cannot be given, other courses on the Duke campus will be substituted.

## CHEMISTRY

- S1. General Inorganic Chemistry.—4 s.h.  
MR. R. N. WILSON AND MR. BRADSHER
- S2. General Inorganic Chemistry.—Prerequisite: Chemistry S1. 4 s.h.  
MR. R. N. WILSON AND MR. BRADSHER
- S61. Qualitative Analysis.—4 s.h. MR. D. HILL AND MR. STUCKEY
- S70. Quantitative Analysis.—4 s.h. MR. SAYLOR AND MR. MARYOTT
- S151. Organic Chemistry.—Prerequisites: courses 61 and 70, except by permission of the instructor. 4 s.h. MR. HAUSER AND MR. BRESLOW
- S152. Organic Chemistry.—Prerequisite: course S151. 4 s.h.  
MISS BROWN AND MR. YOUNG
- S275X. Thesis Research.—2 to 8 s.h. MR. BIGELOW AND MR. HOBBS

## ECONOMICS

- S51. Principles of Economics.—3 s.h. MR. T. S. BERRY
- S52. Principles of Economics.—3 s.h. MR. KEECH
- S57-S58. Principles of Accounting.—6 s.h. MR. SHIELDS
- S115. Economic Geography: Teachers' Course.—3 s.h.  
MR. LANDON (*first term*)  
MR. KEECH (*second term*)

NOTE: Conservation of Natural Resources.

- S116. Economic Geography and Industrial Organization.—3 s.h.  
MR. LANDON
- S158. Insurance.—3 s.h. MR. T. S. BERRY
- S171-S172. Advanced Accounting.—6 s.h. MR. BLACK
- S181. Business Law: Contracts, etc.—3 s.h. MR. SPRINGER
- S182. Business Law: Partnerships, etc.—3 s.h. MR. SPRINGER
- S203. Money and Banking.—3 s.h. MR. WELFLING
- S211. History of Political Economy Prior to 1800.—3 s.h. MR. HAMILTON
- S236. Public Finance.—3 s.h. MR. WELFLING
- S239. Prices.—3 s.h. MR. HAMILTON
- S256. Labor Legislation.—3 s.h. MR. DEVYVER
- S257. Social Insurance.—3 s.h. MR. DEVYVER

## EDUCATION

## PUBLIC SCHOOL ADMINISTRATION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Political Science, Economics, or Sociology. Candidates for the Master of Education under the new plan must take fifteen semester hours of work from the courses specifically listed under this division.)

- S224. Current Problems in Public Education as Revealed through School Surveys.—3 s.h. MR. GAMBLE

## S234. Secondary School Organization and Administration.—3 s.h.

MR. P. H. GWYNN (*first term*)MR. GOLDTHORPE (*second term*)

## S293. Problems of the Teaching Personnel.—3 s.h.

MR. OVERN

## S323. Public School Finance.—3 s.h.

MR. GOLDTHORPE (*first term*)MR. FOWLKES (*second term*)S333X. Thesis Seminar: Research in School Administration.—*Credit to be arranged.*MR. PROCTOR (*either term*)MR. OVERN (*second term*)

## 343. State and County School Administration.—3 s.h.

MR. GOLDTHORPE

## S253. Legal Phases of School Administration.—3 s.h.

MR. PUNKÉ

## S363. City School Organization and Administration.—3 s.h.

MR. PROCTOR

## S373. Business Problems of School Administration.—3 s.h.

MR. OVERN

## PUBLIC SCHOOL SUPERVISION (GRADUATE COURSES)

(Master's candidates in this division elect their minor work in Psychology or an approved combination with Educational Psychology, or in Sociology. Master of Education candidates are permitted as many as nine semester hours of work in their minor, but take the remaining twelve or fifteen, if minor is only six hours, from courses specifically described or listed under Supervision.)

## S209. Statistical Methods in Education.—3 s.h.

MR. ODELL

## S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.

MR. HILLMAN

## S224. Current Problems in Public Education as Revealed through School Surveys.—3 s.h.

MR. GAMBLE

## S232. Elementary School Supervision.—3 s.h.

MR. OVERN

## S233. Administrative Pupil Accounting.—3 s.h.

MR. FOWLKES

## S273. Problems of High-School Supervision.—3 s.h.

MR. HIGHSMITH (*first term*)MR. HOWARD (*second term*)

## S287. Problems of Mentally and Educationally Retarded Children.—3 s.h.

MR. WALLIN

## S288. Problems of Mental Hygiene and Education.—3 s.h.

MR. HOLSOPE (*first term*)MR. WALLIN (*second term*)

## S293. Problems of the Teaching Personnel.—3 s.h.

MR. OVERN

## S304. The School as an Institution.—3 s.h.

MR. PUNKÉ

## S305. The Nature, Function, and Reorganization of the Curriculum.—3 s.h.

MR. CARR

## EDUCATIONAL PSYCHOLOGY (GRADUATE COURSES)

(The Master of Education degree is not offered in this division. Master of Arts candidates should choose Psychology for their minor subject. It will be observed that certain of the courses listed under Educational Psychology are also listed under Supervision, Secondary Education, or Elementary Education.)

- S208. Mental Tests and Applications.—Prerequisite: course S258 or six semester hours of other work in educational psychology or psychology. 3 s.h.  
MR. ODELL
- S212. Psychology of the Elementary School Subjects.—3 s.h. MR. BOND
- S216. Psychological Principles of Secondary Education.—3 s.h.  
MR. BOND
- S217. Advanced Educational Psychology.—3 s.h. MR. A. M. JORDAN
- S218. Educational Implications of Genetic Psychology.—Prerequisite: six semester hours of psychology or educational psychology. 3 s.h.  
MR. EASLEY (*first term*)  
MR. A. M. JORDAN (*second term*)
- S227. Psychology of Learning: Problems.—3 s.h. MR. EASLEY
- S237. Investigations in Reading.—3 s.h. MR. TIREMAN
- S237A. Investigations in Reading: Primary Section.—3 s.h.  
MR. TIREMAN
- S247A. Investigations in Arithmetic: Primary Section.—3 s.h.  
MISS JOHN
- S247B. Investigations in Arithmetic: Grammar Grades Section.—3 s.h.  
MISS JOHN
- S257. Investigations in Language and Elementary School English.—3 s.h.  
MR. EVANS
- S258. Educational Measurements.—3 s.h. MR. ODELL
- S287. Problems of Mentally and Educationally Retarded Children.—  
3 s.h. MR. WALLIN
- S288. Problems of Mental Hygiene and Education.—3 s.h.  
MR. HOLSOFFLE (*first term*)  
MR. WALLIN (*second term*)
- S309. Research in Educational Psychology.—3 s.h. MR. BROWNELL
- S317. The Psychological Principles of Education.—3 s.h.  
MR. BROWNELL
- S300. Introduction to Educational Research.—3 s.h. MR. SCATES
- 300X. Educational Research.—3 s.h. MR. SCATES
- S337. Research in Investigations in Reading.—Prerequisite: course S237  
or S237A. 3 s.h. MR. TIREMAN

#### SECONDARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should elect minor work in their teaching subject, or in Psychology or Sociology. Master of Education candidates are required to elect their minor work in their teaching subject, and all of their work in Education must come from courses listed in this division.)

- S205. Curriculum Problems in Secondary Education.—3 s.h.  
MR. HOWARD
- S206. Sociological Foundations of Secondary Education.—3 s.h.  
MR. J. M. GWYNN AND MR. PUNKÉ (*first term*)  
MR. HOLLIS (*second term*)



- S216. Psychological Principles of Secondary Education.—3 s.h.  
MR. BOND
- S226. Teaching of History and the Social Studies.—3 s.h.  
MRS. HAWKES
- S234. Secondary School Organization and Administration.—3 s.h.  
MR. P. H. GWYNN (*first term*)  
MR. GOLDTHORPE (*second term*)
- S234X. Thesis Seminar in Secondary Education.  
MR. CHILDS, MR. J. M. GWYNN, AND MRS. HAWKES
- S246. The Teaching of High-School Mathematics.—3 s.h.  
MR. W. W. RANKIN
- S266. The Teaching of High-School French.—3 s.h.  
MR. WEBB
- S273. Problems of High-School Supervision.—3 s.h.  
MR. HIGHSMITH (*first term*)  
MR. HOWARD (*second term*)
- S276. The Teaching of High-School Science.—Prerequisite: at least  
eighteen semester hours of science in college. 3 s.h.  
MR. SLAY

#### ELEMENTARY EDUCATION (GRADUATE COURSES)

(Master's candidates in this division should take their minor work of six semester hours in Psychology, Educational Psychology, or an approved combination of the two, or in Child Welfare and Development—wholly in Sociology, or partly Sociology and Psychology, or Educational Psychology if a satisfactory combination can be worked out. Master of Education candidates in this division must take fifteen semester hours of work described or listed under Elementary Education.)

- S207. Technique of Teaching.—3 s.h.  
MR. BOND
- S212. Psychology of the Elementary School-Subjects.—3 s.h.  
MR. BOND
- S218. Educational Implications of Genetic Psychology.—3 s.h.  
MR. EASLEY (*first term*)  
MR. A. M. JORDAN (*second term*)
- S222. The Curriculum and Materials of the Elementary Grades.—3 s.h.  
MR. HILLMAN
- S232. Elementary School Supervision.—3 s.h.  
MR. OVERN
- S237. Investigations in Reading.—3 s.h.  
MR. TIREMAN
- S237A. Investigations in Reading: Primary Section.—3 s.h.  
MR. TIREMAN
- S247A. Investigations in Arithmetic: Primary Section.—3s.h.  
MISS JOHN
- S247B. Investigations in Arithmetic: Grammar Grades Section.—3 s.h.  
MISS JOHN
- S257. Investigations in Language and Elementary School English.—  
3 s.h.  
MR. EVANS
- S258. Educational Measurements.—3 s.h.  
MR. ODELL
- S277. Problems of Mentally and Educationally Retarded Children.—  
3 s.h.  
MR. WALLIN



S288. Problems of Mental Hygiene and Education.—3 s.h.

MR. HOLSOFFLE (*first term*)

MR. WALLIN (*second term*)

S322. Seminar in Elementary Education.—3 s.h.

MR. CARR

#### UNDERGRADUATE COURSES

(By permission Seniors may enter graduate courses numbered below 300. Attention is called to the fact that toward the A.B. degree not more than six semester hours of methods courses are allowed to count.)

S58. The Learning Process.—3 s.h.

MR. ESKRIDGE

S68. Mental Hygiene of the School Child.—3 s.h.

MR. GODARD (*first term*)

MR. WATSON (*second term*)

S83. Current Trends in American Public-School Organization.—3 s.h.

MR. CURTIS (*first term*)

MR. BARDEN (*second term*)

S103. School Organization and Administration for the Classroom Teacher.—3 s.h.

MR. BARDEN

S117. Analysis of Study and Study Habits in the Elementary School Subjects.—3 s.h.

MR. CURTIS

S118. Educational Implications of Genetic Psychology.—3 s.h.

MR. WATSON

S122. The Teaching of Arithmetic in the Primary Grades.—3 s.h.

MISS DEANS

S127. The Teaching of Arithmetic in the Grammar Grades.—3 s.h.

MISS DEANS

S136. The Teaching of High-School English.—3 s.h.

MR. A. C. JORDAN

S142. Children's Literature: Primary Section.—2 s.h.

MISS WILSON

S147. Children's Literature: Grammar Grade Section.—2 s.h.

MISS WILSON

S161. Social Studies in the Grammar Grade.—3 s.h.

MRS. PORTER

S162. Social Studies in the Primary Grades.—3 s.h.

MRS. PORTER

S167. Materials and Methods in the Teaching of Science in the Elementary Schools.—3 s.h.

MR. SLAY

S182. The Teaching of Geography.—3 s.h.

MR. GODARD

S192. Materials and Methods in the Primary Grades.—3 s.h.

MISS MICHAELS (*first term*)

MISS MARKS (*second term*)

S197. Materials and Methods in the Grammar Grades.—3 s.h.

MISS MICHAELS (*first term*)

MISS MARKS (*second term*)

#### PUBLIC SCHOOL ART AND MUSIC

A. Integrated Art in the Public School.—3 *points professional credit only.*

MRS. ALSTON (*first term*)

MRS. MASON (*second term*)

B. Industrial Art in the Public School.—3 *points professional credit only.*

MRS. ALSTON

C. Public School Music.—3 *points professional credit only.* MR. BRUINSMA

#### HYGIENE AND HEALTH EDUCATION

S112. Personal and School Hygiene.—3 s.h.

MISS GARDINER

S132A. Materials and Methods in Health Education: Primary Grades.—  
3 s.h.

MR. AYCOCK

S132B. Materials and Methods in Health Education: Grammar Grades.—  
3 s.h.

MR. AYCOCK

#### ENGINEERING

C.E. S10. Plane Surveying.—3 s.h.

MR. HALL, MR. BIRD, AND MR. WILLIAMS

C.E. S110. Plane Surveying.—3 s.h.

MR. BIRD

#### ENGLISH

Master's candidates in English are required to complete at least three semester hours in Chaucer or certain other designated courses. Master's candidates who have completed as many as twelve semester hours of graduate work should also take the bibliography course, S301, at their earliest opportunity.

S1. English Composition.—3 s.h.

MR. HARWELL

S2. English Composition.—3 s.h.

MR. HARWELL

S53. English Composition.—3 s.h.

MR. A. C. JORDAN

S55. Representative English Writers.—3 s.h.

MR. SANDERS

S56. Representative English Writers.—3 s.h.

MR. SANDERS

S63. A Survey of English Poetry.—3 s.h.

MR. SUGDEN

S64. A Survey of English Poetry.—3 s.h.

MR. SUGDEN

S107. Journalism: The Collecting and Writing of News.—3 s.h.

MR. HARRIS

S108. Journalism: Editing Practices.—3 s.h.

MR. HARRIS

S117. Acting.—3 s.h.

MR. WEST

S121. Play Production.—3 s.h.

MR. WEST

S122. Play Production.—3 s.h.

MR. WEST

S123. Shakespeare.—3 s.h.

MR. MITCHELL

S124. Shakespeare.—3 s.h.

MR. MITCHELL

S125. Early Nineteenth-Century Literature.—3 s.h.

MR. PATTON

S126. Early Nineteenth-Century Literature.—3 s.h.

MR. PATTON

S137. American Literature prior to 1850.—3 s.h.

MR. STROVEN

- S138. American Literature, 1850-1900.—3 s.h. MR. HURLEY (*first term*)  
MR. STROVEN (*second term*)
- S142. The Teaching of High-School English.—3 s.h. MR. A. C. JORDAN
- S145. English Literature, 1832-1900.—3 s.h. MR. BLACKBURN
- S146. English Literature, 1832-1900.—3 s.h. MR. BLACKBURN
- S147. American Literature since 1900.—3 s.h. MR. HURLEY
- S163. Folk Backgrounds of Literature.—3 s.h. MR. J. M. CARPENTER
- S203. Chaucer.—3 s.h. MR. BAUGH
- S211A. The Essay to 1650.—3 s.h. MR. ALLEN
- S213. Folk Backgrounds of Literature.—3 s.h. MR. J. M. CARPENTER
- S215. Elizabethan Drama.—3 s.h. MR. SPENCER
- S216. The English Drama in the Reign of James I.—3 s.h. MR. SPENCER
- S218. Milton: Paradise Lost, Paradise Regained, and Samson Agonistes.  
—3 s.h. MR. HUGHES
- S220. English Literature, 1750-1800.—3 s.h. MR. IRVING
- S221. English Drama, 1660-1780.—3 s.h. MR. WARD
- S223. Survey of Early Nineteenth-Century Literature.—3 s.h. MR. JONES
- S225A. Early Victorian Literature: Browning.—3 s.h. MR. GRIGGS
- S226. Later Victorian Literature, 1850-1900.—3 s.h. MR. GRIGGS
- S227. Literary Criticism.—3 s.h. MR. GILBERT
- S235A. Studies in Dryden.—3 s.h. MR. WARD
- S237. Shakespeare's Earlier Plays.—3 s.h. MR. SPENCER
- S238. Shakespeare's Later Plays.—3 s.h. MR. SPENCER
- S241. Literature of the American Far West.—3 s.h. MR. STEWART
- S243. History of the English Language.—3 s.h. MR. BAUGH
- S257. American Novel prior to 1870.—3 s.h. MR. LEISY
- S258. American Prose Literature since 1870.—3 s.h. MR. STEWART
- S261. Southern Critical Thought.—3 s.h. MR. PARKS
- S268. Milton: Minor Poems and Principal Pamphlets.—3 s.h.  
MR. HUGHES
- S271. The Nondramatic English Literature of the Sixteenth Century.—  
3 s.h. MR. ALLEN
- S301. Bibliography and Methods of Research.—3 s.h.  
MR. JENKINS (*first term*)  
MR. DRAPER (*second term*)
- S307X. Thesis Seminar in American Literature prior to 1870.—3 s.h.  
MR. LEISY

- S308X. Thesis Seminar in American Literature since 1865.—3 s.h.  
MR. GOHDES
- S311. English Literature from the Norman Conquest to Chaucer, Part I.—  
3 s.h. MR. BAUGH
- S312. English Literature from the Norman Conquest to Chaucer, Part II.  
—3 s.h. MR. BAUGH
- S323. Studies in Coleridge.—3 s.h. MR. GRIGGS
- S324. Studies in Shelley.—3 s.h. MR. JONES
- S325. The Regency and Early Victorian Period.—3 s.h. MR. GRIGGS
- S327. Seminar in Southern Literary Criticism.—3 s.h. MR. PARKS
- S329. Seminar in Sixteenth- and Seventeenth-Century English Litera-  
ture.—3 s.h. MR. GILBERT
- S331. Seminar: The Age of Pope.—3 s.h. MR. IRVING
- S349B. Problems in Shakespeare.—3 s.h. MR. DRAPER

### FORESTRY

Candidates for the Bachelor of Science degree with a major in Forestry are required to take Civil Engineering S110 (Plane Surveying) in Summer School at the close of their Junior year. This course is listed under Engineering, page 294, this bulletin. Candidates in Forestry are also expected to take the following courses after completing the required work in Engineering:

- S150. Forest Surveying.—Prerequisite: Civil Engineering 110, Plane Sur-  
veying, or equivalent. 5 s.h. MR. MAUGHAN
- S151. Forest Mensuration.—4 s.h. MR. SCHUMACHER

### FRENCH

- S1. Elementary French.—3 s.h. MISS RAYMOND
- S2. Elementary French.—3 s.h. MISS RAYMOND
- S3. French Prose.—Prerequisite: French S1-S2 or two years of high-  
school French. 3 s.h. MR. DOW
- S4. French Prose.—Prerequisite: French S3. 3 s.h. MR. DOW
- S51. Introduction to French Literature.—Prerequisite: French S3-S4 or  
equivalent. 3 s.h. MR. BRIDGERS
- S52. Introduction to French Literature.—Prerequisite: French S51. 3 s.h.  
MR. BRIDGERS
- S208. The French Romantic Movement, 1820-1850.—3 s.h. MR. COWPER
- S209. Molière.—3 s.h. MR. QUINN
- S218. Materials and Methods.—3 s.h. MR. WEBB
- S219. Old French.—3 s.h. MR. COWPER
- S233. Main Currents of Modern French Literature.—3 s.h. MR. WEBB

S315. Problems in the Modern French Novel.—3 s.h. MR. B. R. JORDAN

S340. Thesis Seminar in French Civilization.—3 s.h. MR. B. R. JORDAN

### GEOGRAPHY

See courses listed under Economics.

### GEOLOGY

S175. Summer Field Course in Geology.—Prerequisite: Geology 51-52 or its equivalent, and the permission of the instructor. 4 s.h. MR. W. BERRY

### GERMAN

S1. Elementary German.—3 s.h. MR. MAXWELL

S2. Elementary German.—3 s.h. MR. MAXWELL

S3. Intermediate German.—3 s.h. MR. F. E. WILSON

S4. Intermediate German.—3 s.h. MR. F. E. WILSON

S115. German Drama of the First Half of the Nineteenth Century.—3 s.h.  
MR. KRUMMEL

S116. German Drama of the Second Half of the Nineteenth Century.—  
3 s.h. MR. KRUMMEL

### GOVERNMENT

See courses listed under Political Science.

### GREEK LITERATURE

(In English Translation)

S121. Homer.—3 s.h. MR. JERNIGAN

S122. Greek Literature: The Great Tragedies.—3 s.h. MR. JERNIGAN

### HISTORY

S51. Modern and Contemporaneous Europe.—3 s.h. MR. McCLOY

S52. Modern and Contemporaneous Europe.—3 s.h. MR. McCLOY

S91. Political and Social History of the United States to 1830.—3 s.h.  
MR. MABRY (*first term*)  
MR. MONTAGUE (*second term*)

S92. Political and Social History of the United States, 1830-1900.—3 s.h.  
MR. MABRY (*first term*)  
MR. MONTAGUE (*second term*)

S101. Development of Western European Civilization to about 800 A.D.—  
3 s.h. MR. MANCHESTER

S102. Development of Western European Civilization from 800 to 1563  
A.D.—3 s.h. MRS. QUINN (*first term*)  
MR. MANCHESTER (*second term*)

S119. Social and Economic History of the American People.—Prereq-  
uisite: S91-S92. 3 s.h. MR. ROBERT





- S240. **Advanced Calculus.**—Prerequisite: integral calculus. 3 s.h.  
MR. MILES
- S241. **Integral Equations.**—Prerequisite: course 239-240. 3 s.h.  
MR. DRESSER
- S255. **Projective Geometry.**—Prerequisite: differential calculus. 3 s.h.  
MR. CARLITZ
- S256. **Projective Geometry.**—Prerequisite: S255 or special permission from instructor. 3 s.h.  
MR. ROBERTS
- S275. **Probability.**—Prerequisite: integral calculus. 3 s.h. MR. MILES
- S325. **Real Variable.**—Prerequisite: S239. 3 s.h. MR. GERGEN
- S326. **Real Variable.**—Prerequisite: S239. 3 s.h. MR. ROBERTS
- S389X. **Thesis Seminar.** MR. CARLITZ
- S390X. **Thesis Seminar.** MR. GERGEN

### PHYSICS

For admission to candidacy for a Master's degree with major in Physics, students must have completed a minimum of twelve semester hours of Physics. This course work, together with the work in the field of the proposed minor, must be approved by the Department through the Director of Graduate Studies.

- S1-S2. **General Physics.**—8 s.h.  
MR. D. W. CARPENTER AND MR. RICHARDS
- S17. **Physics for Engineers.**—3 s.h. MR. MOUZON
- S18. **Physics for Engineers.**—3 s.h. MR. MOUZON
- S106. **Photography.**—3 s.h. MR. BONNER
- S207. **Electricity and Magnetism.**—3 s.h. MR. CONSTANT
- S208. **Electricity and Magnetism.** MR. CONSTANT
- S353X. **Thesis Seminar.**—2 to 6 s.h.  
MR. BONNER, MR. CONSTANT, MR. MOUZON, AND MR. NIELSEN

### POLITICAL SCIENCE

- S61. **American Government and Politics.**—3 s.h.  
MR. LINEBARGER (*first term*)  
MR. SIMPSON (*second term*)
- S62. **American Government and Politics.**—3 s.h.  
MR. LINEBARGER (*first term*)  
MR. SIMPSON (*second term*)
- S136. **Major European Governments.**—3 s.h. MR. COLE
- S209. **State and Local Government in the United States.**—3 s.h.  
MR. R. S. RANKIN
- S221. **Foreign Service: Diplomatic and Consular Practice.**—3 s.h.  
MR. STUART
- S222. **World Politics.**—3 s.h. MR. STUART
- S229. **Recent and Contemporary Political Theory.**—3 s.h. MR. COLE

S241. Principles of Public Administration.—3 s.h.	MR. SHIPMAN
S244. Problems in Public Administration.—3 s.h.	MR. SHIPMAN
S310. Seminar in State Government.—3 s.h.	MR. R. S. RANKIN

### PSYCHOLOGY

S101. Introduction to Psychology: General Principles of Mental Activity and Growth.—3 s.h.	MRS. MACCOLL
S204. Psychology of Motivation.—3 s.h.	MR. ZENER
S207. Experimental Psychology.—3 s.h.	MR. ZENER
S215. Child Psychology.—3 s.h.	MR. ADAMS
S217. Gestalt Theory.—3 s.h.	MR. ADAMS

### RELIGION

S103. The Prophets of the Old Testament.—3 s.h.	MR. MYERS
S116. The Teachings of Jesus.—3 s.h.	MR. MYERS
S165. Religious Drama.—3 s.h.	MR. SPENCE
S168. Religious Drama: Construction and Production.—3 s.h.	MR. SPENCE
S261. Foundations of Religious Education.—3 s.h.	MR. H. S. SMITH
S284. Ideas of the Future Life and Ethics in the Religions of the World.—3 s.h.	MR. CANNON
S285. The Religions of India.—3 s.h.	MR. CANNON
S366. Seminar in Philosophy of Religious Education.—3 s.h.	MR. H. S. SMITH

### SOCIOLOGY

(Course S101 is a prerequisite to all other courses in the Department.)

S101. General Sociology.	MR. EDDY ( <i>first term</i> ) MR. PORTERFIELD ( <i>second term</i> )
S105. Introduction to Social Pathology.—3 s.h.	MR. ROOT
S112. Introduction to Child Welfare.—3 s.h.	MR. PORTERFIELD
S114. Race Relations.—3 s.h.	MR. THOMPSON
S205. Social Pathology.—3 s.h.	MR. ROOT
S206. Criminology.—3 s.h.	MR. PORTERFIELD
S212. Child Welfare.—3 s.h.	MR. JENSEN
S219. Urban Sociology.—3 s.h.	MR. THOMPSON
S220. Rural Sociology.—3 s.h.	MR. THOMPSON
S227. Emigration and Immigration.—3 s.h.	MR. JENSEN
S340. Seminar: The Sociology of the South.—3 s.h.	MR. THOMPSON

## SPANISH

S1. Elementary Spanish.—3 s.h.	MR. DAVIS
S2. Elementary Spanish.—3 s.h.	MR. DAVIS
S3. Intermediate Spanish.—3 s.h.	MR. AVILÉS
S4. Intermediate Spanish.—3 s.h.	MR. AVILÉS
S65. Introduction to Modern Spanish Literature.—3 s.h.	MR. AVILÉS
S66. Introduction to Spanish Literature of the Golden Age.—3 s.h.	MR. AVILÉS
S253. Spanish Phonetics.—Prerequisite: S65-S66 or equivalent. 3 s.h.	MR. LUNDEBERG
S372. Seminar in the Modern Spanish Novel.—3 s.h.	MR. LUNDEBERG

## ZOOLOGY

S209. Evolution and Heredity.—Prerequisite: two years of zoology. 6 s.h.	MR. JOHNSON
S222. Entomology.—Prerequisite: at least one year of zoology. 6 s.h.	MR. GRAY
S229. Endocrinology.—Prerequisite: at least one year of zoology. 6 s.h.	MR. CUNNINGHAM
S219 or S353. Special Problems, Research.	MR. CUNNINGHAM MR. GRAY MR. JOHNSON

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*The following courses will be given at the Beaufort Marine Laboratory:*

S204. Animal Parasites.—6 s.h.	MR. PEARSE
S219 or S353. Special Problems, Research.	MR. PEARSE, MR. BOOKHOUT
S274. Invertebrate Zoology.—6 s.h.	MR. BOOKHOUT
S355. Biological Seminar.—1 s.h. each term.	MR. PEARSE, MR. OOSTING, MR. BOOKHOUT

# JUNALUSKA SUMMER SCHOOL, INC.

(AFFILIATED WITH DUKE UNIVERSITY)

LAKE JUNALUSKA, N. C.

PAUL NEFF GARBER, A.B., A.M., Ph.D.

DIRECTOR

## FACULTY

ANDERSON, LEWIS EDWARD; B.S., Mississippi State College; A.M., Duke; Ph.D., University of Pennsylvania; BOTANY (Duke University).

BARDEN, JOHN GLENN; A.B., University of North Carolina; A.M., Columbia; Columbia, 1930-31; EDUCATION (Visiting Instructor, Duke University).

CLARK, ELMER TALMADGE; A.B., Birmingham-Southern; A.M., George Peabody College; B.D., S.T.D., Temple University; LL.D., Southern College; RELIGION (Assistant Secretary, Board of Missions, Methodist Episcopal Church, South).

CLARK, KENNETH WILLIS; A.B., Yale; B.D., Rochester; Ph.D., University of Chicago; RELIGION (Duke University).

CRUM, MASON; A.B., Wofford; A.M., Ph.D., University of South Carolina; RELIGION (Duke University).

FITZGERALD, WILLIAM STONE; A.B., Vanderbilt; A.M., Harvard; Duke, 1934-37; ENGLISH (Duke University).

GARBER, PAUL NEFF; A.B., Bridgewater; A.M., Ph.D., University of Pennsylvania; RELIGION (Duke University).

HICKMAN, FRANKLIN SIMPSON; A.B., DePauw; S.T.B., Boston University School of Theology; A.M., Ph.D., Northwestern; RELIGION (Duke University).

McEWEN, NOBLE RALPH; A.B., Birmingham-Southern; A.M., Duke; Duke, 1930-32, 1938; EDUCATION (Salem College).

McLARTY, FURMAN GORDON; A.B., Duke; B.A. (Oxon.); Ph.D., Harvard; PHILOSOPHY (Duke University).

OWENS, HENRY GRADY; A.B., University of North Carolina; A.M., New York University; EDUCATION (Salem College).

PETRY, RAY C.; A.B., Manchester; A.M., Ph.D., University of Chicago; RELIGION (Duke University).

ROPP, THEODORE; A.B., Oberlin; A.M., Ph.D., Harvard; HISTORY (Duke University).

SMITH, RAYMOND ALEXANDER; A.B., Duke; B.D., Ph.D., University of Chicago; SOCIOLOGY (Greensboro College).

WIGGINS, ROBERT LEMUEL; A.B., Emory; A.M., Vanderbilt; Ph.D., University of Virginia; ENGLISH (Wesleyan College).

**BUSINESS MANAGER**

JAMES R. BOYD  
Waynesville, North Carolina

**CALENDAR, REGISTRATION, AND ADMISSION**

The Junaluska Summer School, Inc., will open June 9 and close July 21. Recitations will be held five days in the week, all Mondays except June 12 being holidays. Tuesday, July 4, will be observed as Independence Day. The annual Duke Day Celebration will be held on Monday, July 10.

Thursday, June 8, is reserved for the registration of students from Haywood County; Friday, June 9, is registration for all other students. Regular classes will meet at 8:15 Saturday morning, and recitation work will begin at once.

Certificates of high-school graduation and other credentials should be submitted to the Director at the time of registration.

**JUNALUSKA SCHOOL OF RELIGION**

The twelfth session of the Junaluska School of Religion, which is conducted under the joint management of Duke University and the Board of Christian Education with the co-operation of the Board of Missions and other boards of the Methodist Episcopal Church, South, will be conducted as the Department of Religion in the Junaluska Summer School for the summer of 1939, its opening and closing dates being the same as for the other departments. In addition to the undergraduate credits offered by the other departments, Junaluska School of Religion will offer credits counting toward the degree of Bachelor of Divinity. The work in Religion is designed for pastors, church workers, missionaries, and students who desire to fit themselves more efficiently for their work or to obtain credits looking toward the securing of university degrees.

**COURSES OFFERED**

Professional courses are offered for teachers in elementary schools, teachers of primary grades and of grammar grades, and teachers of high-school subjects, for freshmen and sophomore students in colleges and for students desiring somewhat more advanced work in the field of religion.

For qualified college students, instruction will be offered in botany, education, English, history, philosophy, sociology, and religion. Credit is allowed toward the A.B. degree at Duke University for these courses, credit toward the A.M. degree for the courses in field botany, and credit toward the B.D. degree for the advanced courses in religion.

**COURSES IN FIELD BOTANY**

Special courses in field botany will be offered to public school teachers of nature study, high-school teachers of botany and biology, and to qualified college students.

**FEES AND EXPENSES**

Tuition charge for college students other than teachers is \$10. Teachers are exempt from tuition, as are also ministerial students who register in the Junaluska School of Religion. Expenses may therefore be estimated by teachers and School of Religion students as follows:

	Low	High
Registration .....	\$20	\$20
Room and Board .....	50	72
Library and Recreation Fee .....	2	2
	<hr/>	<hr/>
	\$72	\$94

To this should be added about \$5 for books and probably \$5 for miscellaneous expenses, besides the tuition charge for students other than teachers. Since Haywood County contributes toward the registration fees of its teachers, Haywood County teachers pay only \$8 of the total registration fee.



## COURSES OF INSTRUCTION

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*This is a condensed description of courses. For full description, see Bulletin of the Summer School.*

### BOTANY

- |                                     |              |
|-------------------------------------|--------------|
| S225. Field Botany.—4 or 6 s.h.     | MR. ANDERSON |
| S226. Special Problems.—2 to 6 s.h. | MR. ANDERSON |

### EDUCATION

- |   |            |
|---|------------|
| S58. The Learning Process.  | MR. OWENS  |
| S83. Current Trends in American Public School Organization.             | MR. BARDEN |
| S103. School Organization and Administration for the Classroom Teacher. | MR. BARDEN |
| S104. History of Education in the United States.                        | MR. McEWEN |
| S105. Introduction to Educational Sociology.                            | MR. SMITH  |
| S121. Grammar Grade Methods in Reading and Language.                    | MR. OWENS  |
| S158. Educational Measurements.   | MR. McEWEN |

### ENGLISH

- |                            |                |
|----------------------------|----------------|
| S60. Contemporary Poetry.  | MR. FITZGERALD |
| S123. Shakespeare.         | MR. FITZGERALD |
| S138. American Literature. | MR. WIGGINS    |

### HISTORY

- |   |          |
|---|----------|
| S51. Modern and Contemporary Europe, 1500-1814. | MR. ROPP |
| S52. Modern and Contemporary Europe since 1814. | MR. ROPP |

### PHILOSOPHY

- |   |             |
|---|-------------|
| S48. Introduction to Logic and Scientific Method. | MR. McLARTY |
| S101. Introduction to Philosophy.                 | MR. McLARTY |

### RELIGION

- |   |                 |
|---|-----------------|
| S210. The Religion of Jesus.                      | MR. K. W. CLARK |
| S231. The Social Message of the Christian Church. | MR. PETRY       |
| S235. Modern Religious Leaders.                   | MR. GARBER      |
| S273. Pastoral Psychology.                        | MR. HICKMAN     |
| S281. Missions in the Modern World.               | MR. E. T. CLARK |

**SOCIOLOGY**

S112. Introduction to Child Welfare. MR. SMITH

**FOR UNDERGRADUATES ONLY**

S51. The History of the Hebrew People. MR. PETRY

S52. New Testament Literature. MR. CRUM

S131. American Christianity. MR. GARBER

S170. Religion and the Modern Home. MR. CRUM

S182. Founders and Literatures of Great Religions. MR. E. T. CLARK

# THE SCHOOL OF FORESTRY

1938-1939

ANNOUNCEMENTS FOR 1939-1940

## CALENDAR

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1939

- June 2. Friday, 8:00 A.M.—Field work begins in Surveying (C. E. S110) required of students entering School of Forestry.
- June 26. Monday, 8:00 A.M.—Field work begins in Forest Surveying (For. S150).
- July 4. Tuesday—Independence Day: a holiday.
- Aug. 1. Tuesday, 8:00 A.M.—Field work begins in Forest Mensuration (For. S151).
- Sept. 18. Monday, 8:30 A.M.-12:30 P.M.—Orientation examination, School of Forestry.
- Sept. 19. Tuesday, 8:30 A.M.-12:30 P.M.—Orientation examination, School of Forestry.
- Sept. 20. Wednesday, 9:00 A.M.-12:30 P.M.; 2:00 P.M.-5:00 P.M.—Registration of students in the School of Forestry.
- Sept. 21. Thursday—Instruction begins in the School of Forestry.
- Sept. 21-23. Thursday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-4:00 P.M.; Friday, 9:00 A.M.-1:00 P.M.; 2:30 P.M.-5:00 P.M.; Saturday, 9:00 A.M.-1:00 P.M.—Registration of students in the Graduate School.
- Oct. 16. Monday—Last day for submitting thesis subjects for M.F. degree.
- Nov. 30. Thursday—Thanksgiving Day: a holiday.
- Dec. 11. Monday—Duke University Day.
- Dec. 20. Wednesday, 1:00 P.M.—Christmas recess begins.

1940

- Jan. 3. Wednesday, 8:00 A.M.—Instruction is resumed.
- Jan. 17. Wednesday—Mid-year examinations begin.
- Jan. 31. Wednesday, 9:00 A.M.-12:30 P.M.; 2:00 P.M.-5:00 P.M.—Registration of students in the School of Forestry.
- Feb. 1. Thursday—Second semester begins.
- March 30. Saturday, 1:00 P.M.—Spring vacation begins. School of Forestry field trip begins.
- April 8. Monday, 8:00 A.M.—Instruction is resumed.
- April 15. Monday, 8:00 A.M.—School of Forestry field trip ends.
- May 15. Wednesday—Last day for submitting M.F. theses.
- May 17. Friday—Final examinations begin.
- June 1. Saturday—Commencement opens; Senior Class Day; meeting of the Board of Trustees.
- June 2. Sunday—President's Address to Graduating Class; Commencement Sermon.
- June 3. Monday—Commencement Address; Alumni-Alumnae Luncheon; Graduating Exercises; Lowering of the Flag by the Graduating Class.

## OFFICERS OF ADMINISTRATION

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FEW, WILLIAM PRESTON, A.B., A.M., Ph.D., Litt.D. <i>President</i>	West Campus
FLOWERS, ROBERT LEE, A.M., LL.D. <i>Vice-President in the Business Division, Secretary, and Treasurer</i>	West Campus
WANNAMAKER, WILLIAM HANE, A.B., A.M., Litt.D. <i>Vice-President in the Educational Division and Dean of the University</i>	West Campus
BROWN, FRANK CLYDE, A.B., A.M., Ph.D. <i>Comptroller</i>	410 Buchanan Boulevard
MARKHAM, CHARLES BLACKWELL, A.B., A.M. <i>Assistant Treasurer</i>	204 Dillard Street
KORSTIAN, CLARENCE FERDINAND, B.S.F., M.F., M.A., Ph.D. <i>Dean of the School of Forestry</i>	1718 Duke University Road

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### ADMINISTRATIVE COMMITTEE OF THE SCHOOL OF FORESTRY

W. P. FEW, *President*  
R. L. FLOWERS, *Secretary and Treasurer*  
C. F. KORSTIAN, *Dean*

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### COMMITTEE OF THE BOARD OF TRUSTEES ON THE SCHOOL OF FORESTRY

H. R. DWIRE, W. W. FLOWERS, M. E. NEWSOM

## GENERAL STATEMENT

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Forestry in Duke University began early in 1931 when, through placing the Duke Forest under intensive management for forestry purposes, a substantial beginning was made in laying the foundations for educational work and research in forestry.

A pre-forestry curriculum, designed for students intent upon pursuing the study of forestry, particularly as a profession after graduation, was organized in Trinity College of Duke University in 1932 (see *Announcement on Undergraduate Instruction in Duke University*). This four-year course of study provides only for instruction in fundamental and auxiliary subjects basic to a proper understanding of the highly specialized work in technical forestry. Duke University offers no professional degree in technical forestry available to undergraduates.

Training in technical forestry leading to the professional degree, Master of Forestry, is offered in the School of Forestry, and is open to all graduates of the pre-forestry curriculum in Trinity College and to graduates of recognized scientific schools or colleges, universities, and professional schools of forestry.

Duke University is also prepared to offer, through the Graduate School of Arts and Sciences, graduate work in the more scientific aspects of forestry leading to the Master of Arts and Doctor of Philosophy degrees. This work is available to graduates of schools of forestry of recognized standing, and to college or university graduates holding the Bachelor's degree with their major work in appropriate scientific subjects. Undergraduate subjects which the college student, who does not have forestry training but who is contemplating work toward these two degrees in forestry, should take in preparation for this work may be illustrated as follows: at least two full years in botany, including general morphology or anatomy, the taxonomy, physiology, and ecology of plants; at least one course in zoology or general biology; courses in chemistry, physics, geology, economics, mathematics; and at least two years of French or German.

Several staff members of the Appalachian Forest Experiment Station are engaged in co-operative research projects in the Duke Forest. Specialists from this station and other prominent members of the U. S. Forest Service and representatives of forest and wood-using industries give occasional scheduled lectures at the School.

## EDUCATIONAL FACILITIES

The School of Forestry is located in the Biology Building along with the Departments of Botany and Zoology. The Biology Building contains classrooms, laboratories, offices, a library, three refrigerated rooms, an incineration room, a workshop, and eight dark-rooms. The School is



provided with instruments and tools for use in both field and laboratory work in silvics, silviculture, and forest mensuration. Modern surveying instruments and accessory equipment are available for work in forest surveying.

Laboratories for work in wood anatomy and properties are provided with microtechnique and photomicrographic instruments, wood-working machinery, a Henderson dry kiln, and a 50,000-pound Olsen Universal timber testing machine. A forest soils laboratory is equipped with an all-electric, 12-unit Kjeldahl digestion and distillation apparatus for determining organic and ammoniacal nitrogen, a moisture equivalent and subsoil centrifuge, drying ovens, muffle furnace, sand-sieve shaker, soil-suspension shaker, Parr apparatus for total carbon analysis, potentiometric apparatus, and many pieces of lesser equipment.

Facilities are also available for advanced work in plant physiology, plant anatomy, plant taxonomy, genetics, plant ecology, plant pathology, and the several branches of zoology. Many rooms in the Biology Building are equipped with vacuum, compressed air, direct and alternating electric current, gas, and running water.

The forestry section of the Library contains a growing collection of material on forestry, soils, and closely related subjects. It includes important books and periodicals in English and in French, German, and certain other foreign languages. The Library is well provided with American material, including Federal and State documents and reports. Over 150 periodicals and serials of importance in forestry and related fields are received by subscription or exchange.

Large greenhouses, connected to the Biology Building through a soil-storage and work room, provide adequate space for experimental work.

A nursery has been established by the University for the joint use of the Sarah P. Duke Floral Garden, the Botany Department, and the School of Forestry. The forestry section of this nursery is used mainly for the growing of planting stock for the Arboretum and trees needed for research or other special purposes.

### THE DUKE FOREST

The Duke Forest, located in Durham and Orange counties, North Carolina, consists of three main units; namely, the Durham, New Hope Creek, and Hillsboro divisions. Early in the development of Duke University it was recognized that the possession of such an area offered an unusual opportunity for the development of educational work in forestry.

Situated on the lower Piedmont plateau at elevations ranging from 280 to 650 feet, and composed of second-growth shortleaf and loblolly pines, oak, gum, hickory, maple, yellow poplar, ash, and other hardwoods, the Forest is representative of the various types of timber growth found throughout the region. Over a hundred different species of trees are found within or near the Forest. The land is rolling and there is relatively little rock outcrop, swamp, or other land of low productivity for

timber growing. The total area of the Forest proper, exclusive of the University campus, was 4,696 acres in 1931.

In developing the Duke Forest the following objectives are being emphasized:

1. Demonstration of the various methods of timber growing, silvicultural treatment, and forest management on a practical and economic basis.

2. Development as an experimental forest for research in the problems of timber growing and in the sciences basic thereto. In spite of the present timber situation and the accompanying economic ills, the technical and scientific knowledge required to handle forest crops efficiently on a permanent basis is still largely lacking. The Duke Forest affords a place where investigations may be carried on to augment this knowledge for the large region of which the local forest and soil conditions are representative.

3. To serve as an outdoor laboratory where field work can be carried on by forestry students under the guidance of the Forestry Faculty. One of the most difficult problems in forestry education is to bring the students into contact with the realities of professional activities. With all operations in the Forest, both routine and investigative, recorded annually, it is possible for a qualified man to get in a short time a degree of practical knowledge or technical expertness which only an organized forest can provide.

The Duke Forest is particularly well located to serve as a field laboratory, in that most of it is adjacent and easily accessible to the University campus. In fact, the Durham Division practically surrounds the West Campus since it was laid out in one corner of the Forest. A paved State highway runs lengthwise through the Durham Division, and several good roads cross the Forest. About fifteen miles of improved woods roads make all parts of the Forest readily accessible. A five-minute walk will take one well into the Forest, and any part of the Durham or New Hope Creek divisions can be reached by automobile in ten to twenty minutes. At few other places in America can be found provision for forestry training and research which include the necessary forest literally at the door of a large university with its instructional, laboratory, and library facilities.

Although the Forest has been but recently organized, considerable progress has been made toward carrying out the principal objectives recognized at the outset.

Most of the 1,286 acres of open land is, or until recently has been, cultivated. Such of the open land as is not restocking naturally to forest trees is being planted. Here students have an opportunity to study at first hand the results of many experimental plantations prepared for them in advance. Arbitrarily by mixing species and varying the spacing between the trees in the plantations now being made, the foundation is laid for future research into many perplexing problems, such as species relationships and requirements, the most desirable spacing and species to use

in this region, and the survival and relative rates of growth of the different species of trees.

Over sixty permanent sample plots, ranging in size from one-tenth acre to one acre, have been laid out in the Forest to study various problems. The plots are distributed through all the forest types, and range in purpose from studies of the effects of various silvicultural practices to studies of rates of growth and yields of the different timber types. More plots are being established as rapidly as time and funds will permit. Accurate records are kept on all this work, which will provide excellent material for student research. In the future many of these plots can also be used to demonstrate desirable forestry practices.

The work of putting the Forest under intensive management is well under way. A complete inventory of the Forest has been made, and tabulations showing the present volume and annual growth of each separate timber stand are at hand. A forest type and timber stand map for each of the three divisions has also been completed. Each division has been subdivided into permanent compartments, and recommendations for the silvicultural treatment of the separate stands in each compartment, to be embodied in a management plan, are being formulated. Cutting operations within the limits of annual growth are being carried on, and as markets for definite products are developed or expanded such operations will be increased. To date, approximately 500 acres in the pine types have been thinned. These thinnings serve the dual purpose of contributing to the operation of the Forest as a going business and of demonstrating sound forestry practices. An efficient fire protection organization has been developed in co-operation with the State and Federal governments, and forest fire losses are being held to a minimum. In managing the Forest, public recreation activities are recognized. Several recreation areas have been established, and over ten thousand picnickers, hikers, and horseback riders use the area annually. The Durham and New Hope Creek divisions of the Forest, together with several hundred acres of neighboring privately owned land, are incorporated in an Auxiliary State Game Refuge to give the necessary protection which will ultimately result in an increased amount of game in the surrounding territory. Records are being maintained of all activities in the Forest, and these records will become increasingly useful as they are improved as a result of further experience and research. With the diversification and expansion of activities now going on, the student has an opportunity to study an operating forest in all its phases and to obtain a grasp of the proper balance between theory and practice.

The Forest is admirably located for research in forest soils. An unusually large number of different soil conditions occur in the Forest because of the diversity of parent rock, topography, and past land culture. Major soil differences are due to the nature of the parent material which includes the basic rock of the Carolina Slate formation, granites, Triassic sedimentary rock, and many types of basic intrusives.

An exceptionally good opportunity exists for the conduct of forest research by graduate students due to the wide range in forest types, ages,

and soil conditions within the Forest and its proximity to the laboratories, greenhouses, and other scientific equipment and library facilities of the University. Research has already been started on special problems, particularly in the fields of silvics, forest soils, forest-tree physiology, silviculture, forest management, and wood technology. The Forest is used not only for research in forestry but also for research in forest biology by members of allied departments.

### THE ARBORETUM

A feature which will be of outstanding value in the teaching of both forestry and botany in the future is the provision for development of an arboretum. In their annual meeting on June 4, 1934, the Board of Trustees of Duke University, upon the recommendation of their Forestry Committee, voted to set aside permanently an area of over three hundred acres in the Forest to be used for arboretum purposes. The area lies adjacent to the main University campus immediately across the road from the Chapel.

Through the generosity of Mr. W. W. Flowers, of New York, a member of the Class of 1894 and a Trustee of the University, it has been possible to develop preliminary plans and to make a number of plantings. This is naturally a long-time project, and many years will elapse before the Arboretum will be most useful and most attractive. The University Trustees' Committee on Forestry in their report to the Board refers to the Arboretum as follows:

"The Arboretum should serve as a station for the study of trees and woody plants as individuals and in small groups in their scientific relations, economic properties, and cultural characteristics, requirements, and possibilities. It should render an economic service by acting as a research laboratory where trees and shrubs can be studied from the viewpoint of a fuller utilization of their commercial possibilities. It should render a cultural service by serving as a center where foresters, landscape architects, nurserymen, gardeners, and the general public may increase their knowledge of indigenous trees and shrubs and where they may become acquainted with the foreign species that can be grown here. Within the University the Arboretum will supply living specimens and material for several branches of botany and forestry."

The development of the Arboretum will proceed along these lines as rapidly as available funds and planting stock will permit.

### SCHOLARSHIPS AND FELLOWSHIPS IN FORESTRY

A limited number of graduate scholarships and fellowships are available to men who offer promise of becoming leaders in the forestry profession. These will be available to men of high character and marked scholastic ability, who merit financial aid, as judged by their education, experience, and personal references.

The annual stipend of these scholarships and fellowships ranges from two hundred and fifty dollars (\$250) to seven hundred and fifty dollars (\$750); the exact amount awarded to each successful applicant will vary



with his qualifications. Holders of scholarships and fellowships will be expected to pay the tuition fee and such additional fees as are regularly required.

The following arrangements apply to the scholarships and fellowships:

1. The applicant must have received a degree either from a professional school of forestry of good standing or must be a graduate of a recognized college or university. Candidates not graduates of schools of forestry must have had the major work for their degree in botany or soil science and in the allied basic sciences. In addition, he must have reasonably high scholarship to be admitted to full standing in the School of Forestry or the Graduate School of Arts and Sciences. In general, preference will be given to men who have already obtained technical or professional training as represented by a degree from an accredited school of forestry and who have a reading knowledge of French and German.

2. It is highly desirable that a candidate for a scholarship or fellowship state in his application as specifically as possible the problem which he wishes to study. The definite selection of a suitable problem—one that is specific and affords training both in fundamentals and in technique—is very helpful to the committee on awards.

3. Holders of scholarships and fellowships may become candidates for the Master of Forestry, Master of Arts, or Doctor of Philosophy degrees when they have met the requirements for admission to candidacy for these degrees.

4. Holders of scholarships and fellowships shall devote at least nine consecutive months to an approved program of work in forestry. While in residence they will be expected to do a limited amount of assisting.

5. Application blanks for scholarships and fellowships may be obtained by writing to the Dean of the School of Forestry, Duke University, Durham, North Carolina. When the blank has been filled out by the applicant it should be returned to the above address, and *must be accompanied by an official transcript of record* showing college or university credits. The application and transcript must be filed not later than March 1 for the following academic year. In case vacancies occur, applications submitted on a later date will be considered.

### REQUIREMENTS FOR ADMISSION TO THE SCHOOL OF FORESTRY

The following general requirements of the School of Forestry apply to candidates for the Master of Forestry degree:

Admission to the School of Forestry presupposes that the applicant is either a graduate of a scientific school, college, or university of high standing, but without professional training in forestry; or that he is a graduate of a professional school of forestry of recognized standing. He will present not less than four years of credit of collegiate grade, with at least as many quality-points as hours.<sup>1</sup>

An applicant with no professional training in forestry will present a certified transcript of his academic record showing that he has had conferred upon him a degree in arts, science, or engineering; and that he has satisfactorily completed undergraduate work in minimum amount as follows:

One year of botany, including the morphology, physiology, and identification of plants.

<sup>1</sup> Grades for each hour of college credit and also for credit earned in the School of Forestry are valued in quality-points as follows: A, 3 points; B, 2 points; C, 1 point; D, no points; and F, no credit and —1 point.

One year each of English and of chemistry.

One course each in physics and in the principles of economics.

Mathematics, through college algebra and trigonometry.

It is urged that an applicant without professional training in forestry present additional credits in the above subjects and in one or more of the following subjects: Soils, geology, mineralogy, petrology, climatology, surveying, languages (particularly German and French), sociology, political science, philosophy, psychology, and zoology.

An applicant who is a graduate of a professional school of forestry of recognized standing will present a certified transcript of scholastic record showing the award of a degree. Before registering for the first semester of residence, he will be required to take a comprehensive examination in the following branches of forestry: silvics, silviculture, forest mensuration, forest management, utilization, wood anatomy and properties, forest economics, and forest policy. The purpose of this examination is to aid in determining the needs of individual students.

Students must make application for admission in advance of the opening of the school year. Those students entering without acceptable courses in plane surveying, forest surveying, and forest mensuration must take the twelve weeks of work in these subjects in the Summer School, and are required to submit their applications prior to May 1. Students entering with advanced standing in surveying and forest mensuration should make application before September 1. Application blanks will be sent upon request made to the Dean of the School of Forestry.

#### REQUIREMENTS FOR THE DEGREE OF MASTER OF FORESTRY

The degree of Master of Forestry (M.F.) is conferred upon students who have satisfactorily completed two years of study in technical forestry and one term of twelve weeks' work in plane surveying, forest surveying, and forest mensuration in the Summer School. In addition to the Summer School work a total of not less than sixty semester-hours' credit is required for the M.F. degree, of which at least fifty-five shall be obtained in the School of Forestry.

A two weeks' field trip to typical timber-harvesting, manufacturing, and other forestry operations in the South is conducted by the School and is required as a part of the work in Forest Products Industries (Forestry 212). Other students in the School of Forestry may be permitted to take this trip as opportunities will be available for special work and observations in other branches of forestry in forest types not represented in the Duke Forest.

No student may take less than fifteen or more than eighteen hours in any one semester without special permission of the School of Forestry Faculty. The following work will be required of all candidates for the M.F. degree:

#### SUMMER SCHOOL

	<i>S.H.</i>
Plane Surveying (C. E. S110).....	3
Forest Surveying (F. S150).....	5
Forest Mensuration (F. S151).....	4



**FIRST YEAR**

<i>First Semester</i>	S.H.	<i>Second Semester</i>	S.H.
Harvesting Forest Products (F. 211) .....	3	Forest Products Industries (F. 212) .....	3
Sampling Methods (F. 251) .....	2	Forest Pathology (F. 224) .....	4
Dendrology (F. 253) .....	4	Forest Entomology (F. 232) .....	3
Wood Anatomy & Properties (F. 259) .....	3	Forest Mensuration (F. 252) .....	2
Forest Soils (F. 261) .....	3	Silvics (F. 264) .....	3
Forest Protection (F. 273) .....	2	Elective .....	

**SECOND YEAR**

Silviculture (F. 265) .....	5	Forest Policy (F. 276) .....	2
Forest Economics (F. 279) .....	3	Forest Valuation (F. 282) .....	3
Forest Management (F. 281) .....	4	Seminar (F. 292) .....	2
Thesis .....	2	Thesis .....	2
Elective .....		Elective .....	

Each candidate is required to file in the office of the Dean of the School of Forestry on or before May 15 three copies of a thesis, typewritten and bound in accordance with regulations set forth by the Faculty. The thesis shall be based upon an original study made in the field, laboratory, or library.

Work of equivalent grade done in residence at recognized schools of forestry may, with the approval of the Faculty, be accepted as credit toward the M.F. degree. A minimum of one year's residence is required at Duke University. Students who have had satisfactory undergraduate training in forestry may, with the approval of the Faculty, elect to devote the major portion of their time to research under the supervision of one or more members of the Faculty and prepare a more comprehensive thesis than is required of students entering the School without previous work in forestry. Students in the School of Forestry may take in allied departments of the University as electives certain courses approved by the Faculty.

**FORESTRY IN THE GRADUATE SCHOOL**

Graduate work toward the Master of Arts and Doctor of Philosophy degrees in the more scientific branches of forestry is available to adequately prepared students at Duke University. This work is given through the Division of Forestry of the Graduate School of Arts and Sciences by certain members of the School of Forestry Faculty. For full description, see Bulletin of the Graduate School of Arts and Sciences.

**SPECIAL REQUIREMENTS FOR DEGREES IN FORESTRY**

The Master of Arts and Doctor of Philosophy degrees are attained through scientific work rather than technical or professional training in forestry. Work for these degrees may be pursued only in forest-tree physiology, wood anatomy and properties, forest pathology, forest entomology, silvics, forest soils, forest mensuration, forest management,

and forest economics, except that a major cannot be taken in forest management. A student upon registration chooses a field of study which may lie in two or more departments. The members of the Graduate School Faculty best qualified in that field are named as the student's advisory committee, regardless of the department of which they are members. This committee will advise the student in the planning and conduct of his work and will evaluate it when completed.

A reading knowledge of French and German must be acquired early in the course of graduate study in forestry because much of the forestry literature of the world is written in or has summaries in these languages. For the Ph.D. degree the language requirement must be met before the preliminary examination is taken and usually before the preparation of the thesis is begun.

The length of time required for a student to obtain the Master of Arts and Doctor of Philosophy degrees in forestry is determined by the character of his previous work and by the quality of his work in the Graduate School. Upon the recommendation of the Forestry Staff and with the approval of the Council on Graduate Instruction, work of equal grade done in residence at another college or university, or at a research station or institute not connected with a college or university, may be accepted toward a Ph.D degree, but at least the last year or the first two years of graduate study must be spent in actual residence at Duke University. Only in connection with the preparation of the thesis will work be accepted that has been done elsewhere than in residence at a college, university, or research station.

Students whose research is concerned with the study of trees and forest stands in the Duke Forest during the growing season may find it necessary to be at the University during the summer.

The field of study may include advanced work in allied subjects as well as advanced work in forestry. The student should have covered, however, most of the basic subjects prior to entering the Graduate School. The required advanced work will depend upon the student's previous training and the special field of study selected. Before beginning his work the student must obtain approval of his proposed program of study, including the plans for the research for his thesis. Courses of study must be correlated with each other and with the thesis research.

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### FEES AND EXPENSES

Tuition and registration fees are due at the beginning of each semester. The matriculation fee is \$25.00 a semester. The tuition fee is \$100.00 a semester. A damage fee of \$1.00 is collected at the beginning of the first semester only, an athletic fee of \$5.00 at the beginning of each semester, a library fee of \$5.00 each semester, and a medical fee of \$5.00 each semester.

## COURSES OF INSTRUCTION

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*This is a condensed description of courses. For full description, see Bulletin of the School of Forestry.*

### IN THE SUMMER SCHOOL

**C.E. S110. Plane Surveying.—3 s.h.**

PROFESSORS BIRD AND W. H. HALL AND MR. WILLIAMS

**S150. Forest Surveying.—Prerequisites:** Civil Engineering S110, Plane Surveying, or equivalent. 5 s.h. ASSOCIATE PROFESSOR MAUGHAN

**S151. Forest Mensuration.—4 s.h.**

PROFESSOR SCHUMACHER

### FOR SENIORS AND GRADUATES

**211. Harvesting Forest Products.—3 s.h.**

PROFESSOR WACKERMAN

**212. Forest Products Industries.—Prerequisite:** Forestry 211 or equivalent. 3 s.h. PROFESSOR WACKERMAN

**213. Seasoning and Preservation of Wood.—Prerequisite:** Forestry 259 or equivalent. 3 s.h. PROFESSOR WACKERMAN

**214. Marketing Forest Products.—Prerequisites:** Forestry 211 and 212, or equivalents. 3 s.h. PROFESSOR WACKERMAN

**224. Forest Pathology.—Prerequisites:** Botany 1 and 2, and Forestry 253, or equivalents. 4 s.h. PROFESSOR WOLF

**232. Forest Entomology.—3 s.h.**

PROFESSOR BEAL

**235. Forest Game Management.—3 s.h.**

PROFESSOR BEAL

**251. Sampling Methods in Forestry.—Prerequisite:** Forestry S151. 2 s.h. PROFESSOR SCHUMACHER

**252. Forest Mensuration.—Prerequisite:** Forestry 251. 2 s.h.

PROFESSOR SCHUMACHER

**253. Dendrology.—Prerequisite:** one year of botany. 4 s.h.

ASSOCIATE PROFESSOR HARRAR

**256. Wood Pulp and Pulp Products.—Prerequisites:** Forestry 212 and 259, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR

**257. Design of Forestry Experiments and Analysis of Data.—5 s.h.**

PROFESSOR SCHUMACHER

**259. Wood Anatomy and Properties.—Prerequisites:** one year of Botany and Chemistry 1 and 2, or equivalents. 3 s.h.

ASSOCIATE PROFESSOR HARRAR

**260. Timber Mechanics.—Prerequisite:** Physics 1 and Forestry 259, or equivalents. 3 s.h. ASSOCIATE PROFESSOR HARRAR

**261. Forest Soils.—Prerequisites:** Chemistry 1 and 2, and Physics 1, or equivalents; physical geology and analytical chemistry are also desirable. 3 s.h. ASSISTANT PROFESSOR COILE

264. **Silvics.**—Desirable prerequisites: Plant physiology, plant ecology, and Forestry 253 and 261 or equivalent. 3 s.h. PROFESSOR KORSTIAN
265. **Theory and Practice of Silviculture.**—Prerequisite: Forestry 264 or equivalent. 5 s.h. PROFESSOR KORSTIAN
266. **Forest Seeding and Planting.**—2 s.h. PROFESSOR KORSTIAN
273. **Forest Protection.**—2 s.h. ASSOCIATE PROFESSOR THOMSON
276. **Forest Policy.**—2 s.h. ASSOCIATE PROFESSOR THOMSON
279. **Economics of Forestry.**—Prerequisite: at least one course in the principles of economics. 3 s.h. ASSOCIATE PROFESSOR THOMSON
281. **Forest Management.**—Prerequisites: Forestry S150, S151, 251, and 252, or equivalents. 4 s.h. ASSOCIATE PROFESSOR MAUGHAN
282. **Forest Valuation.**—Prerequisite: Forestry 281 or equivalent. 3 s.h. ASSOCIATE PROFESSOR MAUGHAN
284. **Forest Improvements.**—Prerequisite: Forestry S150 or equivalent. 3 s.h. ASSOCIATE PROFESSOR MAUGHAN
292. **Seminar.**—2 s.h. THE STAFF

#### FOR GRADUATES

- 323-324. **Advanced Forest Pathology.**—Prerequisites: plant physiology and forest pathology. Credits to be arranged. PROFESSOR WOLF
- 351-352. **Advanced Physiology of Forest Trees.**—Prerequisites: plant physiology and plant ecology or silvics. Credits to be arranged. ASSOCIATE PROFESSOR KRAMER
354. **Forest Soil Fertility.**—Prerequisites: Forestry 251 and 261, and plant physiology, or equivalents; bacteriology and analytical and organic chemistry are desirable. 3 s.h. ASSISTANT PROFESSOR COILE
356. **Advanced Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents; courses in economic theory are desirable. 2 s.h. ASSOCIATE PROFESSOR THOMSON
- 357-358. **Research in Forestry.**—Credits to be arranged. Students who have had adequate training may do research under direction of members of the Faculty in the following branches of forestry:
- Silvics.**—Prerequisites: Forestry 253, 261, and 264, or equivalents. PROFESSOR KORSTIAN
  - Forest Soils.**—Prerequisite: Forestry 261 or equivalent. ASSISTANT PROFESSOR COILE
  - Silviculture.**—Prerequisite: Forestry 265 or equivalent. PROFESSOR KORSTIAN
  - Forest Management.**—Prerequisite: Forestry 281 or equivalent. ASSOCIATE PROFESSOR MAUGHAN
  - Forest Economics.**—Prerequisites: Forestry 279 and 282, or equivalents. ASSOCIATE PROFESSOR THOMSON
  - Wood Anatomy and Properties.**—Prerequisite: Forestry 259 and 260, or equivalents. ASSOCIATE PROFESSOR HARRAR

g. **Forest Mensuration.**—Prerequisites: Forestry S151, 251, and 252, or equivalents.  
PROFESSOR SCHUMACHER

h. **Forest Entomology.**—Prerequisite: Forestry 232 or equivalent.  
PROFESSOR BEAL

i. **Forest Utilization.**—Prerequisites: Forest 211 and 212, or equivalents.  
PROFESSOR WACKERMAN





# DUKE UNIVERSITY

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DEGREES AND HONORS CONFERRED  
(1939)

ROLL OF STUDENTS  
(1938-1939)

TRINITY COLLEGE

THE WOMAN'S COLLEGE

THE COLLEGE OF ENGINEERING

THE GRADUATE SCHOOL OF ARTS AND SCIENCES

THE SCHOOL OF LAW

THE SCHOOL OF MEDICINE

THE SCHOOL OF NURSING

THE SCHOOL OF RELIGION .

THE SCHOOL OF FORESTRY

## DEGREES AND HONORS CONFERRED (1939)

### A.B. DEGREE

Abernethy, Wray Beatrice	Campbell, Carl Capper
Agnello, Samuel Anthony	Campbell, Martha
Aitken, Lois Ethel	Carlen, Margaret Alice
Alabaster, Robert Bliss	Carpenter, John George
Albright, Robert Taft	Carpenter, Ruth Moore
Allin, Elizabeth Frances	Carter, Clayton Cann
Anderson, Frances Louise	Caskey, Claude O'Dell, Jr.
Applewhite, Elizabeth Cheatham	Caskey, John Thomas
Arthur, Sara Michaux	Chang, Keui Hyung
Bagwell, Jeannette Rankin	Chatham, Alex, Jr.
Baker, Ellis Thomson, III	Clark, Morris McCauley
Baldwin, John Paul	Clarke, Richard Norton
Baldwin, William Edwin, Jr.	Clay, Mary Drew
Barclay, Julia Comly	Clement, Robert Alden
Bard, Donald Gibson, Jr.	Cobb, Irvin Wilson, Jr.
Bariscillo, Virginia Ann	Cobleigh, Nelson Stevens
Barnes, Jack Carlisle	Coppedge, Everett Peter, Jr.
Barnhill, Lola Louise	Costigan, Carroll
Barrett, Mary Dean	Covington, John Walter, Jr.
Barrow, Mary Rebecca	Cox, Arthur Hunter
Bassett, Roderick Emerson	Craven, James Braxton, Jr.
Beaman, John Robert	Crawford, Robert Gunn
Beckel, Willis Spangler	Crawley, James Woodrow
Belk, William Henry	Creery, Dorothy Helen
Bell, Bettina Lee	Crocker, Martha
Bell, George Edington, Jr.	Crowder, Margaret Macon
Bergmann, Russell	Crowell, George Henry, Jr.
Bew, David Fitzsimons	Culp, Evelyn
Bobbitt, Mildred Heavlin	Culp, Raymond Beatty, Jr.
Bolte, Henry Ferdinand	Curtis, Eve Lynn
Bothwell, Ludie Mae	Daane, James Dewey
Bowen, James Darrel	Danner, Edgar LeMoyné
Bowers, Henry Franklin, Jr.	Davidson, Ada Frances
Braynard, Francis Osborn	Davis, Betsy Hale
Braznell, Mary Jane	Davis, Thomas Edgar, Jr.
Breedlove, Susan Caroline	DeHuff, Catherine Agnes
Briggs, Frances Markham	Der Tatevasian, Roosevelt Augustus
Britz, Matthew Leopold	Deupree, William James, Jr.
Brogan, James Michael	Dives, Ann Augustine
Brooks, Frances Ellis	Donovan, Frederick Reynold
Brown, Arthur Collins	Dorn, Hazelle Truman
Brown, Betty Jean	Doyle, William Stowell
Brown, Theron Hart, III	Drake, William Exall
Brugh, Louise Elizabeth	Duncan, Leroy Edward, Jr.
Bunn, Charles Ivy	Dworsky, Bernard Ezra
Burgess, Lucille	Edwards, Annie Parker
Burleson, Norris Mervin	Edwards, Roberta Clyde
Butler, Willis	Elder, Guy Hampton, Jr.
Butt, Dorothy Eloise	Ellis, Erlene Rebecca
Butts, Elsa Louise	Elmiger, Marguerite
Caldwell, Elizabeth Haynes	Emery, Elizabeth Stewart
Calhoun, Thera Carpenter	Erion, Mary Elizabeth

Fair, David Arthur  
 Faulkner, Clifford Ross  
 Ferguson, Benjamin Troy, Jr.  
 Ferris, H. Alexander  
 Few, Kendrick Sheffield  
 Finger, Margaret Louise  
 Finn, Walter Robert  
 Fischer, Adolphe Gordon  
 Fitzgerald, James Morgan, Jr.  
 Fleet, Gertrude  
 Fleetwood, John Kenneth  
 Fletcher, Grace Elizabeth  
 Fliflet, Arne Thorlief  
 Floyd, Hal Stanfield  
 Fogg, Charles Watson  
 Foote, Theodore, Jr.  
 Forlines, John Arthur, Jr.  
 Franck, William Francis, Jr.  
 Fraser, Ethel Jean  
 Fraser, Louise Wright  
 Freidlin, Julius Norman  
 French, Charles Ferris, Jr.  
 Fuller, Elizabeth Carter  
 Fuller, Epsie Gibson  
 Funkhouser, Jacob Ott, Jr.  
 Furlong, John Hamilton, Jr.  
 Gair, Russell Alexander, Jr.  
 Gallo, Frederick  
 Gamsby, John Woodruff  
 Gibson, Jephtha Nelson, Jr.  
 Gibson, Lillian Mai  
 Gillin, Hazelle Delano  
 Glasson, John  
 Goehrig, John Appleget  
 Goode, Richard William  
 Greenwood, Porter C.  
 Gregg, William Riley  
 Grotlich, Louise Kathryn  
 Haas, Robert Otto  
 Hancock, Albert Delos  
 Hardin, Hilliard Frances  
 Hardy, Johnnie Mae  
 Hartlieb, Robert Louis  
 Harvey, Harold E.  
 Haufler, Robert Cooke  
 Hawkins, Jane Northcutt  
 Hayes, Kiffin Rockwell  
 Hayes, William Harold  
 Henry, Dorothy Kathleen  
 Herman, Samuel  
 Hill, Daniel Winfield, Jr.  
 Hobbs, Frederick Thomas  
 Hobgood, Arthur Alton  
 Hodde, Henry Busch  
 Hoggan, Laurence Edward, Jr.  
 Holmes, Reid Thomas  
 Hooten, Charles Edwards  
 Horack, Benjamin Shambaugh  
 Horne, Stephen Francis  
 Horsting, Jane Ellen

Howard, John Couper  
 Hoyle, David Wade  
 Hudson, William Hill, Jr.  
 Hulme, William Speer Newkirk  
 Hutchison, John Grosvenor  
 Ingraham, Dorman Carlton  
 Ingram, John Edgar  
 Irwin, William Madison, Jr.  
 Ivey, Sara Mack  
 Jackson, Henry Wirt  
 James, Walter Delos  
 Jancsics, Mathew Joseph, Jr.  
 Jaquet, Paul Franz, Jr.  
 Jarvis, Ora Alpha  
 Jefferson, Ann Marie  
 Jernigan, Nancy Garrett  
 John, Helene  
 Johnson, Edward Harold, Jr.  
 Johnson, Kathryn Eloise  
 Johnson, John Norborne  
 Johnson, Walter Christopher, Jr.  
 Jones, Curtis Scott  
 Jones, Margaret Louise  
 Jones, Paul Kingsbury  
 Jordan, Macon  
 Kahle, John Roscoe  
 Kelleher, Ruth Margaret  
 Kelley, Jane  
 Kerr, Ben Ransom  
 Kidd, Stephen  
 Killduff, Barbara Elizabeth  
 Kingsbery, Curtis Lusk  
 Kirk, Margaret Westmoreland  
 Kitchen, Jane Crowell  
 Knight, Richard Wallace  
 Koch, Gretchen Arline  
 Koehnlein, Betty  
 Koerner, John Maxwell  
 Kogelschatz, Louis William  
 Krummel, Mary Eleanor  
 Lamb, Robert Gilmore  
 Landreth, Charles Elmer  
 Laprade, Nancy Elizabeth  
 Latty, Carolyn Lucile  
 Leckie, James Alexander  
 Lentz, John Luther  
 Levinson, Joseph Herman  
 Levitt, Helen Bernice  
 Levy, Leonard Daniel  
 Lewis, Elizabeth Holmes  
 Lewis, Richard Quarles  
 Liverant, Freda Helen  
 Lohman, Robert Maurice  
 Long, Max Bickford  
 Lovell, Ernest James, Jr.  
 Lowell, Herbert Gershom, Jr.  
 Lutz, Ethel Elizabeth  
 Lybrook, Robert Murray  
 Lyons, Wilbert Alan  
 Lyttle, John Logan

- MacClements, Mary Helen  
McClenny, Marguerite Elizabeth  
McConnell, Janet Elizabeth  
Macdonald, Richard Watson  
McGinsey, James Franks, Jr.  
McGinnis, Madeline  
McKenzie, Lionel Wilfred, Jr.  
McLain, William Campbell, Jr.  
MacLeod, Betsy Kennedy  
MacLeod, Duncan Kennedy  
Maier, George, III  
Margolis, Kathryn  
Marks, Laura Geneva  
Marshall, Archibald George  
Marshall, Betty Jane  
Martin, Katherine Mary  
Marx, Gloria Helene  
Mason, Howard Patrick  
Matheson, Emily L.  
Maule, June  
Melson, Robert Henry  
Merchant, Robert Eugene  
Metzenthin, Kathleen Proctor  
Meyer, Joseph Wight  
Miles, Charles Nelson  
Miller, Garfield Lankard, Jr.  
Milliette, Jeanne  
Minor, John  
Mizell, Louise McDavid  
Montgomery, James Scott  
Moore, Hervev Studdiford, Jr.  
Moorhead, Charles Albert  
Moreton, Jeannette  
Morgan, Clinton Wilkins, Jr.  
Moritz, John Marines  
Morrissey, John Edward, Jr.  
Morse, William Albert  
Murfree, Matt. Brickell, Jr.  
Murray, James Joseph, Jr.  
Myres, Hillman Burnett  
Nath, Lawrence Haig  
Neikirk, William Irvin  
Nelson, Ellen Lucille  
Nichols, Arthur Dewey, Jr.  
Northrup, Herbert Roof  
Nunn, Henry Philip  
Oak, Eleanor  
Oliver, Ann  
Ord, Jean Sanders  
Osburn, Mary Kathryn  
Park, Marion Yancey  
Parker, Sarah Ann  
Parsons, John Robert, Jr.  
Patillo, Robert Roy, Jr.  
Pedeflous, Marie Louise  
Peed, Lelia Ann  
Peeler, Clayton Sam  
Pennell, Elizabeth Patricia  
Perdue, Maxine Roberta  
Perrell, Francis Arthur  
Perry, John Siler  
Peters, Margaret Haile  
Peters, Paul Robert  
Peters, William Anthony, Jr.  
Pethick, Mary Grace  
Pharo, George Macpherson  
Phillips, Susan Latimore  
Plaster, William Emory, Jr.  
Poston, Rada  
Preyer, Al. O., Jr.  
Pridgen, Janis  
Puckett, Nell Hinson  
Puckett, Robert Stephens  
Pulliam, Samuel Thomson  
Radtke, Robert August  
Rague, John Raymond  
Rand, Robert Collom  
Rausch, Norman Wesley  
Rawdon, Janet  
Ray, George Irving, Jr.  
Read, Elkins, Jr.  
Reid, Rodde, Jr.  
Reinhart, John Belvin  
Rescorla, Elizabeth  
Rettew, Janet Pierce  
Rhodes, Willaim Luther, Jr.  
Rieger, Vivian Theresa  
Roe, Jane Elizabeth  
Rosch, Beatrice Eloyce  
Rosenthal, Harry Ellis  
Ross, Robert Enright  
Ruark, Frances Ione  
Rufforn, Eleanor Foster  
Ruffin, Mary Leona  
Rumsey, Herman  
Ruskin, Alvin Richard  
Russell, June  
Saleeby, Helen  
Samuels, Irving Leonard  
Sarmiento, Maria Trinidad  
Sawyer, Dorothy Louise  
Schendorf, Hilliard Arthur  
Schoenberger, Ruth Isobel  
Scott, Donald Justin  
Scott, LeRoy Alexander  
Scott, Ruth Eleanor  
Seeberg, Gordon Allen  
Sellers, John Groaton  
Senff, Tom Prewitt  
Sewall, Elizabeth Carolyn  
Sexton, Edna Earle  
Shackelford, Daniel Owen  
Shackelton, John Henry, Jr.  
Shannon, Charles Eugene  
Shapiro, David Joseph  
Shepard, Vitol Samuel  
Shortlidge, Elizabeth  
Shuff, Landon Earle  
Shuford, Betty Lindsay  
Simmons, Ruth Virginia

Singleary, William Edward	Wallace, Arthur
Sink, Henry Harrison	Wallace, James Matthews
Slay, Ronald Joseph	Ward, Robert Bruce
Sleight, Robert Edgar	Watson, Edward Louis
Sloan, Harvey Fronfield	Weber, John Joseph
Smith, Harwood Thomas	Weingarten, Bernard
Smith, Helen Baxter	Weischer, Virginia
Smith, Muriel Barrington	Weller, Mary Elizabeth
Smith, Victor K., Jr.	Wenzel, Herman Godfrey, Jr.
Smith, Virginia Bryce	Weyant, Ethel Adele
Smither, Lucy Gray	Whitaker, Elizabeth Anne
Southworth, June Anne	Whitaker, Howard, Jr.
Sparks, Gilbert Ray	Wichum, Carolyn Georgene
Sprott, Thomas Zenas, Jr.	Wilkins, Dorothy Barnum
Spurgin, Charles Dorsey	Wilkinson, Albert Alexander
Stack, Warren Carlisle	Will, Daniel Carl, Jr.
Stamets, Grace	Williams, Denny DuBose
Stamey, Robert Henry	Williams, Edwin Lesslie, Jr.
Stankowitch, William	Williams, Martha Jane
Steele, Orlando Lester	Williams, Pleasant Hardin, Jr.
Stewart, Winburn Earl	Williams, William Orrin
Stine, Doris Gwendolyn	Willis, Noble Sensor
Stone, Dorothy Haines	Wilson, Helen Hall
Stovall, Sidney Thomas	Wilson, Henry Merryman
Stratton, Mary Caroline	Winburn, Robert Jones
Strickland, James Millard	Winters, Jane
Tabor, Wilma Countess	Witten, Helen Rose
Tepper, Ruth Elise	Womble, Olivia
Terry, Emerson Woodworth	Wood, Melvin Nichols
Thompson, Kearns Reid, Jr.	Woodard, Marshall Wayne
Thompson, Walter Rowe	Woodard, Mary Elizabeth
Thoms, Joan Louise	Woods, Lydia Annis
Thurston, Harold Bushman	Wray, Jean
Tipton, Eric Gordon	Wright, Florence Margaret
Townsend, Priscilla Ann	Wright, Wayne Everett
Tracy, William Edward	Wriston, Muriel Lincoln
Truesdale, Sidney Louis	Wyman, Robert Bruce
Vantine, Ora Jean	Yearns, Wilfred Buck, Jr.
Van Voorhis, Robert Henry	Zecher, Dorothea
Walker, Richard Cuthbert	Zuckerman, Ethel Mae

## B.S. DEGREE

Bigger, William Parker	Jones, John Benjamin
Burhans, James Lewis	Jones, Margaret Adelia
Dibeler, Vernon Hamilton	Manbeck, John Norman
Down, Martha Jane	Patterson, Anna Mildred
Drake, Elmer Frederick	Thomas, James Bartholow
Harris, Douglas Leroy	Warth, Henry Kent
Hatcher, Elizabeth	

*In Civil Engineering*

Abbott, John Alfred, Jr.	Nickerson, Charles Henry
Berini, Joseph Frank	Oviatt, Milton Payne
Falciani, Romeo Alfred	Powers, William James
Hickey, Andrew John	Ramsey, Charles Stanley Wesley, Jr.

*In Electrical Engineering*

Ager, John Curtis	Cayce, Edgar Evans
Byrum, Thomas Jefferson	Kreiser, Carl Frederick

Sherron, Roger Jackson, Jr.  
Treut, Walter Eugene

Webster, Christopher Rowland  
Whitted, Hugh Edwin, Jr.

*In Mechanical Engineering*

Bryan, William Lyttle, Jr.  
Cramer, Wellington Morley, III  
Dotter, Richard Allin  
Hatch, John Palmer  
Hitch, Robert Arthur

Hurlbut, John Hovey  
James, Robert Louis  
Pifer, Lewis Weaver  
Powell, Joseph Reade  
von Sothen, Edward Austin, Jr.

*In Nursing*

Adams, Dorothy Ellen  
Applewhite, Ida Shaw  
Atzrodt, Rebecca Ann  
Barton, Ruth Lorelle  
Brewer, Lottie Mae  
Cook, Betty Wood  
Cothran, Mary Lillie  
Hollowell, Maude A.  
McLaughlin, Emma Louise

Maxwell, Winifred Lantz  
Parrish, Marcelle  
Perry, Mary  
Pickett, Margaret Carpenter  
Richards, Dorothy Eugenia  
Roberts, Jessie Ward  
Shields, Lois Natalie  
Ware, Frances  
White, Maude Adams

A.M. DEGREE

Allaben, Sara Elizabeth  
Austin, Marguerite Zelle  
Ayers, Archie Raymond  
Bagley, Mariana Dasch  
Baker, Ruth Maurine  
Barbour, William Johnston  
Baum, Rhoda May  
Baxter, James Edward  
Beam, Joshua Paul  
Beckman, John Fink  
Bramlette, Nancy Lucile  
Brandis, Roland Buford, Jr.  
Brewster, James Pendleton  
Bridges, Daniel Moody  
Bussell, Winsie Florence  
Clifton, Chester Stanley  
Colley, Frank Harris  
Couch, Leon Voight  
Covington, Mary Faison  
Cox, Headley Morris, Jr.  
Derr, Paul Franklin  
Dillard, Kathryn  
Doty, Roy A., Jr.  
Douglas, Jessie Owens  
Duehring, Frederica Elizabeth  
Duehring, Virginia Atwell  
Dunsky, Irvin  
Durrance, S. P., Jr.  
Durst, Margaret Rebecca  
Echerd, Eugenia Mae  
Erckman, William James  
Flemister, Launcelot Johnson, Jr.  
Fletcher, Mary Little  
Fletcher, Mildred Jane  
Flora, Anne Putney  
Formwalt, John McClellan  
Frank, Letitia Morehouse

Gaulding, Roxie Geraldine  
Gould, Robert Kent  
Gunson, Mildred Sneed  
Halsall, Earl Buggle  
Haman, James Blanding  
Hartness, Edna Buree  
Hausser, Harry Edward  
Hood, Ralph Erskine  
Hopkins, Anne Pleasants  
Howie, Naomi  
Hulbert, Marie Jones  
Hurt, James Lewis  
Isenhour, Catharine Elizabeth  
Kelley, Joseph Jackson  
Kinney, Hinton Eugene  
Landis, Allyne Wilder  
Luttrell, Everett Stanley  
McDaniel, Anne Elizabeth  
McDermott, John Joseph  
Marston, Helen Mount  
Merrick, Gordon Danforth  
Merritt, Effie Mae  
Miles, Ernest Percy, Jr.  
Miller, Helen Mary  
Miller, Nancy Hartley  
Morgan, John Weslev  
Mountjoy, Marjorie  
Munster, Ralf Friedrich William  
Myers, Carl Francis, Jr.  
Parks, Helen Clare  
Peters, Thelma Peterson  
Phillips, Paul L.  
Pope, Marvin Hoyle  
Poston, Mary Alverta  
Ravenel, William Bee, III  
Rawl, William Asmann, Jr.  
Roberts, Mary Alma



Russ, Alexander  
 Scarborough, Henry Baldwin  
 Shaw, John Sidney  
 Simmons, Alma Julia  
 Singer, Armand Edwards  
 Smith, Alva Lee  
 Smith, Ollie Sanders  
 Snedegar, Dorothy May  
 Summers, George Boyd  
 Torrasi, Alfred Fred

Uhler, Katherine Maher  
 Walters, Eleanor Boyd  
 Watson, Florence Kathleen  
 Weems, Benjamin Burch  
 Wertz, Roy Albert  
 Whelchell, Laura Darwin  
 Williams, William Lane  
 Wood, Fredric Marcus, Jr.  
 Woodruff, Joseph Leroy  
 Young, Mabel Dorothy

## M.ED. DEGREE

Bigham, Virgil Lee, Jr.  
 Boswell, Albert Sidney  
 Campbell, Carrie Margaret Smith  
 Campbell, Robert Earle  
 Carruth, Christian Hoover, Jr.  
 Cassell, Hugh Kent  
 Casto, Margaret Atkinson  
 Davis, Donald Albert  
 Demorest, Merrick Albert  
 Edmundson, Mary Lois  
 Folger, Ruth Marinda  
 Francis, Joseph Langhorne  
 Frear, Edgar Paul  
 Gentry, John Baker, Jr.  
 Hardman, Linn Jackson  
 Harrison, Carl Ross  
 Jacks, William LeRoy  
 Jenkins, Roy Brown  
 Joiner, Oscar Hardy  
 Jones, Elijah Newman  
 Kelley, J. T.  
 Lambert, James Alfred  
 Landis, Robert James  
 Langford, Rupert Wesley  
 Levin, Florence Cecilia  
 Lewis, Gomer, Jr.

McCamey, Kathryn Elizabeth  
 McDermott, Milford June  
 Madison, Blaine Mark  
 Marshall, Clarence William  
 Miller, Charles Lee, Jr.  
 Mitchell, Edna Mae  
 Moler, James Milton  
 Painter, Edward Jackson  
 Palmour, Charles E. Anthony  
 Pearson, Anna Sophia  
 Pittman, Louie Delle  
 Reeves, Marie Louise  
 Ross, William Alexander  
 Spainhour, Richard Edward  
 Stauffer, Russell George  
 Tarrall, Elmer  
 Taylor, Doris Lavenia  
 Tew, Thelma Pearle  
 Townsend, Harley Vance  
 Vinson, Raymond Augustus  
 Wagner, Carl Leon  
 Wake, Orville Wentworth  
 Wolfe, Quentin Donald  
 Wollet, Charles Elmer  
 Worley, Claude

## MASTER OF FORESTRY DEGREE

Bethel, James Samuel  
 Chisman, Henry Harmon  
 Haines, Harry Caum  
 Owens, William Robert, Jr.

Riley, Madison Monroe  
 Rosendahl, Russell Otto  
 Wellwood, Robert William  
 Wright, Thomas George

## B.D. DEGREE

Bumgarner, George William  
 Collins, Claude Ray  
 DuBose, Clarence Franklin, Jr.  
 Ellzey, William Clark  
 Grice, Phillip Harold  
 Hamilton, John Reynolds  
 Heckard, Cecil Linwood  
 Huneycutt, Wiley Jackson  
 Jarvis, James Clair  
 Jones, Joseph Simeon  
 Jones, Theodore Edward  
 Lane, Daniel  
 Lindsey, Julian Astor

McCulley, Robert William  
 Mallory, Rupert Talmage  
 Martin, Robert Vance  
 Morton, Hilton Osro  
 Overton, James Hardy  
 Reese, David Whitehead, Jr.  
 Richey, McMurphy Smith  
 Rooks, John James  
 Schreyer, George Maurice  
 Soper, Elgar Clyde  
 Stephenson, Marion Osborne  
 Tate, Robert Spence, Jr.  
 Taylor, Voigt Otway

Vick, Thomas Marvin  
Wilkerson, Milton Chick

Williams, Melvin John

## LL.B. DEGREE

Arnold, Hubert Kennard  
Betts, Willard Furman, Jr.  
Blackburn, James William, Jr.  
Bogue, Robert William  
Bomar, Fleming Brown  
Burwell, George Allen  
Carden, Russell Campbell  
Cooley, Edward William  
Deneen, Russell Sanders  
Desvernine, Eugene  
Forsythe, John Samuel  
Gibbs, Charles Haskell  
Griffith, Erma Ellen  
Hoffman, John Edward  
Knapp, James Edward

Lowe, James Russell  
Mann, Oliver DeWitt, Jr.  
Margraf, Gustav Benhart  
Maxwell, Lytton Ethridge  
Meyerson, Stanley Phillip  
Morrah, Patrick Bradley, Jr.  
Oakes, John Campbell  
Powell, Rufus Heflin, III  
Reid, Edwin Kitchen  
Renner, Charles Victor  
Sanders, Richard Tatum  
Stoner, James Byron  
Tomlinson, Benson Cahoon  
Turlington, David James, Jr.  
Womble, William Fletcher

## M.D. DEGREE

Adams, Felix M., Jr.  
Biddle, Robert Martin  
Brown, Walter Earl  
Bunch, Charles Pardue  
Burk, James Merryman  
Carmichael, Gordon G.  
Carter, Richard Rutledge  
Cayer, David  
Covington, James Madison, Jr.  
Cox, John H.  
Crosby, Frank Harold  
Currens, James Hawley  
Douglas, John Munroe  
Downing, Jere Robert  
Dunlap, Ernest Brindley, Jr.  
Eagles, Archie Yelverton  
Eckbert, William Fox  
Field, Arnold Lewis  
Gill, Atticus James  
Haymond, William Victor  
Kernodle, Harold Barker  
Kornegay, Robert Dumais  
Larsen, Charles, Jr.  
Latchem, Charles Wells  
Lawrence, Jerome  
Lincicome, Robert Carl  
Lucas, Paul Warren  
McAnally, William Jefferson, Jr.  
Mattocks, Theodore Roosevelt  
Merkley, Harold Ellis  
Meyer, Francis Poynter, Jr.  
Moffitt, O. Peyton, Jr.

Morrow, Rufus Clegg, Jr.  
Moser, Lyle Alfred  
Munroe, Colin Alexander  
Munson, Henry Ten Eycke  
Nalle, Brodie Crump, Jr.  
Newman, Glenn Carraway  
Nickau, Robert H.  
Nixon, Pat Ireland, Jr.  
Palen, Gilbert Matthewson  
Parrish, Albert Archer  
Pyle, Lawrence Augustus, Jr.  
Raper, James Sidney  
Rysanek, William James, Jr.  
Sawyer, Logan Everett  
Schanher, Paul Welstead, Jr.  
Schnoor, Thomas Gilbert  
Smith, Robert Cathcart  
Stark, Sidney  
Storey, Wray Donald  
Surles, Doris Lee  
Thetford, Joseph Dimmick  
Timmons, John Redden  
Trachtenberg, William  
Turner, Larry  
Wadsworth, Joseph Allison Cannon  
Walp, Frederic Monroe Jacob  
Watson, George Archibald, Jr.  
Webb, Roderick C.  
Weeks, Kenneth Durham  
Wexler, Irving Bernard  
Wilson, Reaves Augustus  
Wren, James Clay

## DIPLOMA IN NURSING

Adams, Dorothy Ellen  
Alexander, Ruth Brinkley  
Applewhite, Ida Shaw  
Atzrodt, Rebecca Ann

Barton, Ruth Lorelle  
Bisanar, Lelia Elizabeth  
Castleberry, Margaret  
Cook, Betty Wood

Cothran, Mary Lillie  
 Crowell, Alucia  
 Gangle, Elsie S.  
 Gordon, Nellie Elizabeth  
 Maxwell, Winifred Lantz  
 Miller, Margaret Carolyn  
 Parrish, Marcelle  
 Perry, Mary

Pickett, Margaret Carpenter  
 Rabb, Sara Iris  
 Rearden, Lauren Harris  
 Richards, Dorothy Eugenia  
 Sanford, Marian Blinn  
 Seawell, Margaret Hines  
 Shields, Lois Natalie

## PH.D. DEGREE

- Ayers, John Carr, A.B., Kalamazoo College; M.S., Kansas State College.  
 Dissertation: *The Cytology of the Anterior Hypophysis of the Immature Albino Rat.*
- Bright, Robert Dietrich, A.B., Dartmouth College.  
 Dissertation: *A Study of Certain Rearrangements and Elimination Reactions Effected by Bases.*
- Brown, Dalton Milford, B.S., M.S., University of Tennessee.  
 Dissertation: *The Vegetation of Roan Mountain: An Ecological Study.*
- Christenson, James Andreas, Jr., A.B., Harvard College.  
 Dissertation: *A Questionnaire Analysis of Personality in Terms of Certain Motivational Categories.*
- Cleaves, Alden Parker, A.B., A.M., Boston University.  
 Dissertation: *The Infrared Absorption Spectrum of Methylamine Vapor.*
- Cooper, Gerald Rice, A.B., A.M., Duke University.  
 Dissertation: *The Study of Complex Ions in Solution by Means of Spectrophotometric Measurements and the Measurement of Magnetic Susceptibility.*
- Copeland, Lewis Campbell, A.B., Texas Christian University; A.M., University of Chicago.  
 Dissertation: *The Function of Racial Ideologies with Special Reference to the Beliefs about the Negro.*
- Correll, Donovan Stewart, A.B., A.M., Duke University.  
 Dissertation: *A Taxonomic and Distributional Study of the Orchids of the Southeastern United States.*
- Creegan, Robert Francis, A.B., Marietta College; A.M., Duke University.  
 Dissertation: *Human Individuality, Philosophically Considered.*
- Edwards, Allen David, B.S., Western State Teachers College; Ph.M., University of Wisconsin.  
 Dissertation: *Influence of Drought and Depression on a Rural Community: a Case Study of Haskell County, Kansas.*
- Foerster, Alma Pauline, A.B., Holyoke College; A.M., Smith College.  
 Dissertation: *The State University in the Old South: A Study of Social and Intellectual Influences in State University Education.*
- Garber, Paul Leslie, A.B., College of Wooster; B.D., Th.M., Louisville Presbyterian Theological Seminary.  
 Dissertation: *The Religious Thought of James Henley Thornwell.*
- Godbold, Albea, A.B., B.D., Southern Methodist University; A.M., Yale University.  
 Dissertation: *Some Factors in the Rise and Character of the Church Colleges in the Ante-Bellum Seaboard South.*
- Harwell, George Corbin, A.B., A.M., Duke University.  
 Dissertation: *A Concordance to the Poetical Works of Matthew Arnold.*
- Heckman, Oliver Saxon, A.B., Lebanon Valley College, A.M., University of Illinois.  
 Dissertation: *Northern Church Penetration of the South, 1860-1880.*
- Henderson, Alfred James, A.B., A.M., University of Rochester.  
 Dissertation: *London and the National Government, 1721-1742: a Study of City Politics and the Walpole Administration.*
- Kirby-Smith, John Selden, B.S., University of the South; A.M., Duke University.  
 Dissertation: *The Raman Spectra of the Gaseous Methyl Amines.*

- Klein, James Raymond, A.B., Duke University.  
Dissertation: *A Study of the Tissue Metabolism of the Rat in Relation to Thyroid Activity.*
- McGavock, William Gillespie, B.S., Davidson College; A.M., Duke University.  
Dissertation: *Annihilators of Quadratic Forms with Applications to Pfaffian Systems.*
- Moore, Eunice Martha, B.S., Maryland College for Women; A.M., Johns Hopkins University.  
Dissertation: *The Determination of the Dipole Moments of Some Organic Vapors.*
- Moore, Jerry Hamilton, B.S., Clemson College; M.S., N. C. State College.  
Dissertation: *The Distribution of the Fiber Population on the Cotton Seed and Its Relation to Fiber Length and Unit Fiber Weight in Five Varieties of American Upland Cotton.*
- Oliver, Henry Madison, Jr., A.B., Southwestern; A.M., Duke University.  
Dissertation: *Some Concepts of Economic Justice.*
- Peck, Robert Lawrence, B.S., Duke University.  
Dissertation: *Chemical Studies of Certain Pathogenic Fungi.*
- Pohl, Herbert Ackland, A.B., Duke University.  
Dissertation: *Dielectric Polarization of Carboxylic Acids in Dilute Non-Polar Solutions in Relation to Association.*
- Pool, Frank Kenneth, A.B., Wake Forest College; Th.M., The Southern Baptist Theological Seminary.  
Dissertation: *The Southern Negro in the Methodist Episcopal Church.*
- Sharp, David Gordon, B.S., Rutgers University; A.M., Duke University.  
Dissertation: *A Study of Certain Effects of Short Ultraviolet Rays on Several Species of Bacteria.*
- Tilley, Nannie May, A.B., Woman's College of the University of North Carolina; A.M., Duke University.  
Dissertation: *The Bright-Tobacco Industry, 1860-1929.*
- Vermillion, Herbert Edward, B.S., Monmouth College.  
Dissertation: *The Solubility of Some Aromatic Hydrocarbons and Their Halogen Derivatives in Water and the Solubility of Nitrobenzene in Deuterium Oxide.*
- Wang, Yen-chieh, B.S., National Tsing Hua University; M.S., Cornell University.  
Dissertation: *Studies of Interactions of Certain Site Factors and Young Loblolly Pine (Pinus taeda L.) Plantations.*
- Watson, Karl Brantley, Jr., B.S., A.B., University of Chattanooga; A.M., Duke University.  
Dissertation: *An Experimental Study of Musical Meanings.*
- Wharton, George Willard, Jr., B.S., Duke University.  
Dissertation: *Ecological Studies on Certain Turtle Parasites.*

## HONORARY DEGREES

## DOCTOR OF LAWS

- |                            |                       |
|----------------------------|-----------------------|
| Oliver Cromwell Carmichael | William Henry Glasson |
|                            | Charles Lee Raper     |

## HONORS IN GRADUATING CLASSES

*Summa Cum Laude*

- |                           |                       |
|---------------------------|-----------------------|
| Baker, Ellis Thomson, III | Liverant, Freda Helen |
|                           | Patterson, Mildred    |

*Magna Cum Laude*

- |                         |                           |
|-------------------------|---------------------------|
| Arthur, Sara            | Duncan, Leroy Edward, Jr. |
| Beckel, Willis Spangler | Few, Kendrick Sheffield   |
| Daane, James Dewey      | Finger, Margaret          |

Horack, Benjamin Shambaugh	Rieger, Vivian
Phillips, Susan	Smith, Victor K., Jr.
Rand, Robert Collom	Van Voorhis, Robert Henry
Rettew, Janet Pierce	

## HONORS IN DEPARTMENTS AND SCHOOLS

Chemistry—Dibeler, Vernon Hamilton; Thomas, James Bartholow  
 Greek—Stovall, Sidney Thomas  
 History—Braynard, Francis Osborn  
 Mathematics—Beckel, Willis Spangler; Rand, Robert Collom  
 Divisional Groups: (Economics, Political Science and Philosophy)—Berger, William Arthur; Daane, James Dewey; Ferris, H. Alexander; McKenzie, Lionel Wilfred, Jr. (English, Philosophy, and Fine Arts)—Arthur, Sara Michaux; Barnes, Jack Carlisle; Liverant, Freda Helen; Rettew, Janet Pierce  
 School of Law: to be graduated with distinction—Margraf, Gustav; Bogue, Robert; Bomar, Fleming; Desvernine, Eugene  
 School of Medicine: Election to *Alpha Omega Alpha*, Honorary Fraternity—Douglas, John Munroe; Munroe, Colin Alexander; Wadsworth, Joseph Allison Cannon; Weeks, Kenneth Durham; Wexler, Irving Bernard.  
 School of Nursing—Barton, Ruth Lorelle

## JUNIOR HONORS

Battle, Guy Arthur	Malone, Thomas Patrick
Beckel, Frank Louis	Mason, Virginia
Berner, Guy Pershing	Reynolds, John Bradley
Dimond, Charles Leigh	Schmidt, Howard Oskar
Eitner, Lorenz E. A.	Scott, Sara
Evans, Alona	Secrest, Lillian
Henry, Barbara	Tally, Joseph Oscar, Jr.
Hodges, Virginia	Townsend, Roswell George
John, Winfield Clinton	Veal, Curry Speed
Johnson, Marion Duke	Ware, Byrne

## SOPHOMORE HONORS

Atwell, Robert James	Perkins, William Hale
Beller, Sidney	Price, Robert Clarke
Curry, Robert Whitney	Rudolph, Louise
French, John Martin	Smart, Tom Davis
Gates, Warren James	Smith, Elizabeth Marie
Keagy, Charles William	Smith, Sherley
McDermott, Raymond Lipscomb	Stanley, Horace Goodman
Morehead, Mildred	Stockdale, Ruth
Murdick, Robert Gordon	Vanderlinde, Robert James
Oehm, Jean	

## FRESHMAN HONORS

Barringer, Paul Jehu, Jr.	McMahon, John Alexander
Brandon, Daniel Morris	Mayo, Louis Allen
Benson, Walter Russell	Montgomery, Kathryn
Daniel, Edwin Jenkins	Oschenreiter, Edward John
Daniel, John James S.	O'Rourke, Ann
Everett, Robert Rivers	Partenfelder, Betty
Haile, Emma	Powell, Eleanor Sue
Himadi, George Manley	Sellers, Frank Edwin
Holton, Samuel Melanchthon	Smith, William Bulkeley
Johnson, Shirley A.	Stoody, Rosemary
Jones, Barney Lee, Jr.	Tinsley, Margaret
Kenion, Alonzo Williams	Waters, Sara Jane
McCreedy, Doris	Wolff, Robert Alfred



# ROLL OF STUDENTS (1938-1939)

## TRINITY COLLEGE

### FRESHMAN CLASS

Ackerman, Robert Manton	Bound Brook, N. J.
Adams, Claude Alvis	Durham, N. C.
Adams, Verlin Talmadge	Williamson, W. Va.
Alexander, John Charles	Durham, N. C.
Alexander, Stewart Murray, Jr.	Durham, N. C.
Allen, James Clyde	Tarentum, Pa.
Allen, Jeremiah Mervin, Jr.	Newtonville, Mass.
Amick, George Henry, Jr.	Gettysburg, Pa.
Anderson, Donald Frederick	Port Allegany, Pa.
Andrews, Herbert Gattis, Jr.	Durham, N. C.
Angelo, Gerald Joseph	Industry, N. Y.
Anthoine, Robert	Portland, Me.
Armstrong, James Edward, Jr.	Royal Oak, Mich.
Asch, Arthur Irving	Harrison, N. J.
Atkins, Lloyd Jackson	Gastonia, N. C.
Aufhammer, Robert Deane	Thorndale, Pa.
Backer, Robert Martin	Winston-Salem, N. C.
Bailey, Edgar Lee	Lexington, N. C.
Baker, Frank Warren	Washington Court House, O.
Barnes, Jack Watson	Ahoskie, N. C.
Barringer, Paul Jehu, Jr.	Sanford, N. C.
Barry, Frank Coates	Sag Harbor, N. Y.
Baskervill, Robert Dortch	Warrenton, N. C.
Bell, Frank Lee	Durham, N. C.
Bell, John Louis	Aurora, Ill.
Bell, Richard Parker	Lakewood, O.
Bennett, Arthur Lumann	Clarksburg, W. Va.
Benson, Walter Russell	Tamaqua, Pa.
Bingler, William Alexander	Pittsburgh, Pa.
Bishop, James Savage	Louisville, Ky.
Blanchard, Lawrence Eley	Raleigh, N. C.
Blodget, Chester Elliott	Leominster, Mass.
Boehringer, Robert R.	Upper Darby, Pa.
Bokinsky, George Edward	Windber, Pa.
Booream, Charles Van Liew	Milltown, N. J.
Bortz, Kilmer	Washington, D. C.
Bowden, Henry Cleveland, Jr.	Raleigh, N. C.
Bragg, Alfred Orman, Jr.	Valley Stream, L. I., N. Y.
Bragg, Kendrick Robertson, Jr.	Savannah, Ga.
Brame, Lacy Morgan	Reidsville, N. C.
Braswell, Thomas Edward, Jr.	Elm City, N. C.
Breedlove, Joseph Penn, Jr.	Durham, N. C.
Briggs, James Merrill	Peoria, Ill.
Brooks, Louis Arthur, Jr.	Charlottesville, Va.
Brooks, William Armistead, III	Dallas, Texas
Brower, Edwin Neil	Hope Mills, N. C.
Brown, Alfred John	Pittsburgh, Pa.
Brown, David Arnold	East Pittsburgh, Pa.
Brown, Oscar Oswell, Jr.	Tampa, Fla.



Brown, Raymond Nicholas, Jr.  
 Brown, Werner Curt  
 Brown, William Moorhead  
 Bruckner, Jack Lincoln  
 Buffington, Donald Renard  
 Burghoff, Willard Lyman  
 Burlingame, Alvah Waterman, III  
 Butler, Geddie Jerome  
 Butts, John Davis  
 Byam, George Alan  
 Byrn, Chester Arthur, Jr.  
 Byrum, Charles R.  
 Byrum, Jack Cope  
 Cable, Robert Shaffer  
 Caddy, James Anthony  
 Callahan, Edwin Forrest  
 Cameron, William Charles  
 Campbell, Jack Holmes  
 Cannon, Charles Albert  
 Cantine, Robert Livingston  
 Carney, John Kelly  
 Cassels, Louie Welborn  
 Caudill, Carrel Mayo  
 Chambers, Robert Newton  
 Cheek, John Merritt  
 Chester, Charles Gaines  
 Clamp, Jesse Carl  
 Clark, Burton Warner  
 Clark, Robert Willard  
 Clark, Word Compton  
 Clayton, Samuel Charles Elford  
 Clements, Russell Rodda  
 Cline, Guy Ellis, Jr.  
 Cobb, Roy Heber  
 Coen, John Howard  
 Colley, John Coolidge  
 Conlon, Richard Paul  
 Connor, Robert Virgil  
 Connelly, Thomas Francis  
 Cook, Howard Charles  
 Cooper, Carlisle Carlton  
 Coppedge, James Young  
 Court, Sidney Eldridge  
 Courter, George Hampton  
 Covington, James Carlwyn  
 Cox, Jere Coleman  
 Cozart, William Charles  
 Crawford, David Bennett, Jr.  
 Creech, Joseph Edward, Jr.  
 Creekmore, Edmund White  
 Creesy, William Martin  
 Cregg, Donald Joseph  
 Cregg, Hugh Anthony  
 Crichton, David Marshall  
 Crock, Frederick Martin  
 Crofts, Frederic Schrader  
 Cromartie, Richard Lemuel, Jr.  
 Cruickshank, Harold William  
 Culbreth, Howard Cranford  
 Culp, Henry Wilburn

Baltimore, Md.  
 Norfolk, Va.  
 Toronto, O.  
 Jamaica, N. Y.  
 Atlanta, Ga.  
 Wallingford, Conn.  
 Brooklyn, N. Y.  
 Scotland Neck, N. C.  
 Closter, N. J.  
 Lowell, Mass.  
 Mayfield, Ky.  
 Winnetka, Ill.  
 Winnetka, Ill.  
 Johnstown, Pa.  
 Johnstown, Pa.  
 Durham, N. C.  
 Worcester, Mass.  
 Austenville, Va.  
 Concord, N. C.  
 Woodstock, N. Y.  
 Sabbath Day Point, N. Y.  
 Ellentown, S. C.  
 Pearisburg, Va.  
 Upper Montclair, N. J.  
 Durham, N. C.  
 Raleigh, N. C.  
 Helena, Ark.  
 Denver, Colo.  
 Richmond Hill, N. Y.  
 Concord, N. C.  
 Bayside, N. Y.  
 Washington, D. C.  
 Lincolnton, N. C.  
 Hollis, L. I., N. Y.  
 Bay Shore, L. I., N. Y.  
 Reading, Mass.  
 Onkama, Mich.  
 Rutherford, N. J.  
 Altoona, Pa.  
 Johnstown, Pa.  
 Charlotte, N. C.  
 Cleveland Heights, O.  
 Glen Head, L. I., N. Y.  
 Niagara Falls, N. Y.  
 Charlotte, N. C.  
 Pittsburgh, Pa.  
 Raleigh, N. C.  
 Charlotte, N. C.  
 Winston-Salem, N. C.  
 Norfolk, Va.  
 Elsmere, N. Y.  
 Methuen, Mass.  
 Methuen, Mass.  
 Durham, N. C.  
 Nicholson, Pa.  
 Pittsford, N. Y.  
 Garland, N. C.  
 Freeport, N. Y.  
 Sanford, N. C.  
 New London, N. C.

- Dalton, Sam Spach  
 Daniel, Edwin Jenkins  
 Daubon, Druso A.  
 Davis, Jasper David  
 Davis, Julian Carlyle  
 Davis, William Whitfield  
 Deal, Carl H., Jr.  
 Dean, Alfred Lovill  
 Dean, John Rea  
 Deane, Carl Brandon  
 Deegan, Joseph Francis  
 Dein, Saul Kenders  
 DeLong, William Marsh  
 DeWitt, John Phillips  
 Dikeman, Theron Lane  
 Dixon, Carl Eugene  
 Dodson, William Warnick, Jr.  
 Dolce, Robert Edgar  
 Dolson, James Frederick  
 Dozier, Riley Clarence  
 Draper, Jess Orr  
 Dratz, Henry Martin  
 Drumm, Corman Stogdell  
 DuBois, Louis Eli  
 Dunn, Harvey Esterly  
 Durham, James Robert  
 Dwight, John Leverett  
 East, George  
 Eckhoff, Paul Sheppard  
 Edwards, Vance Erving  
 Efird, Paul Haywood, Jr.  
 Elder, William Hubert, Jr.  
 Elliott, Carl Richards  
 Etzel, John  
 Farley, James Edward, Jr.  
 Fawcett, Harry William  
 Featherstone, William Preston  
 Felty, Ralph Benton  
 Fergusson, William Willems  
 Fields, Paul Henry  
 Fischer, Herbert Darcy  
 Flanagan, Raymond Lawrence  
 Fleming, Malcolm Newman  
 Fletcher, Thomas Francis  
 Fletcher, Thomas Peyton  
 Fogleman, Thomas Lee  
 Foreman, Robert Evans  
 Fowler, Richard Charles  
 Fracher, Louis Hoyt  
 Fraser, James Graeme  
 Freeman, Thomas Franklin  
 Frink, Hurlburt Robbins  
 Fritz, Wilton George  
 Gannon, Harry M.  
 Gansz, Paul Whitney  
 Gardner, Harvey Adolph  
 Gardner, Russell Menese  
 Gartner, Murray  
 Garvey, Charles Emmet  
 Gee, Louis Gary  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Santurce, Puerto Rico  
 Wilson, N. C.  
 Quincy, Fla.  
 Lumberton, N. C.  
 Salisbury, N. C.  
 Mount Airy, N. C.  
 Chevy Chase, Md.  
 Charlottesville, Va.  
 Kingston, N. Y.  
 Atlantic City, N. J.  
 Reading, Pa.  
 Wyoming, Pa.  
 Dunkirk, N. Y.  
 Winston-Salem, N. C.  
 Harrisburg, Pa.  
 Flushing, N. Y.  
 Franklin, Pa.  
 South Mills, N. C.  
 Saginaw, Mich.  
 Lynbrook, N. Y.  
 Philadelphia, Pa.  
 Duquesne, Pa.  
 Frederick, Md.  
 Durham, N. C.  
 Wayne, Pa.  
 Raphine, Va.  
 Palisades Park, N. J.  
 Greer, S. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 Augusta, Ga.  
 Little Neck, N. Y.  
 Durham, N. C.  
 Bellevue, Pa.  
 Durham, N. C.  
 Ashland, Ky.  
 Akron, O.  
 Jonesboro, N. C.  
 West Haven, Conn.  
 Springfield, Mass.  
 Syracuse, N. Y.  
 Stewart Manor, N. Y.  
 Paducah, Ky.  
 Durham, N. C.  
 Elizabeth City, N. C.  
 Mt. Vernon, N. Y.  
 Detroit, Mich.  
 Charlotte, N. C.  
 Upper Montclair, N. J.  
 Norwich, N. Y.  
 Ridgewood, N. J.  
 Long Island City, N. Y.  
 Buffalo, N. Y.  
 Miami, Fla.  
 Lock Haven, Pa.  
 Edgewood, R. I.  
 Utica, N. Y.  
 Victoria, Va.

George, Leonard Beattie  
 Getman, Thomas Devroe  
 Gilbert, Creighton Eddy  
 Gill, Aubrey Winfree  
 Gillespie, William Edward  
 Given, Waitman Camden, Jr.  
 Glisson, Hiram Broadus, Jr.  
 Gobbel, Walter Gothard, Jr.  
 Golden, Julian Hays  
 Goldstein, Leon  
 Goodman, David LeRoy, Jr.  
 Goodman, James Gayther  
 Goodson, William Alexander, Jr.  
 Gorman, John Lawrence  
 Gott, John Warner  
 Gould, David Foster, II  
 Grant, Charles Allison  
 Greene, Edgar Carlton  
 Greenfield, Robert Edmon  
 Grimes, William Henry, Jr.  
 Gross, Paul Magnus, Jr.  
 Haag, John Phillip Derr  
 Habbersett, Edgar Raymond  
 Haddad, Joseph Lebanon  
 Happ, Frank Morris  
 Happ, Lee Morris, Jr.  
 Hardin, John Anderson  
 Harley, Robert Edward  
 Harper, John Robert  
 Harrelson, Henry Craig, Jr.  
 Harriss, Meader Williams, Jr.  
 Hartle, Joseph Thurman  
 Hartzell, Jay Stanley, Jr.  
 Haviland, Robert Smith  
 Heath, Lester John, Jr.  
 Hedrick, Henry Grady, Jr.  
 Henderson, Joseph Crawford, Jr.  
 Hennis, Cecil Forest, Jr.  
 Henry, James Everell  
 Herdic, Carl Wesley, Jr.  
 Hersey, Rodney Barker  
 Hibbs, Nelson Douglass  
 Hicks, Roger Frederick  
 Higgins, Clarence Bertrand, Jr.  
 Hill, Richard Joshua  
 Himadi, George Manley  
 Hipps, Hugh Pearson  
 Hobbs, Robert Thomas  
 Hobgood, William Langhorne  
 Hoerle, Robert Caspar  
 Hoffman, Arthur Charles  
 Holmes, Elwin Franklin  
 Holton, Samuel Melanchton  
 Holtzman, Thomas Wood  
 Honeycutt, James Fermon  
 Horn, Carl, Jr.  
 Houseman, French Leon  
 Howard, Waite Westley, Jr.  
 Howe, Robert Emmet, Jr.  
 Hutson, James Jackson

Staten Island, N. Y.  
 Winnetka, Illinois  
 Durham, N. C.  
 Ettrick, Va.  
 Atlanta, Ga.  
 Cleveland, O.  
 Savannah, Ga.  
 Suffolk, Va.  
 Pineville, Ky.  
 Salem, N. J.  
 Baltimore, Md.  
 Charlotte, N. C.  
 Winston-Salem, N. C.  
 Pottsville, Pa.  
 Avon, N. Y.  
 Riverton, N. J.  
 Anchorage, Ky.  
 Detroit, Mich.  
 Decatur, Ill.  
 Bronxville, N. Y.—  
 Durham, N. C.  
 Williamsport, Pa.  
 Media, Pa.  
 Ansonia, Conn.  
 Macon, Ga.  
 Macon, Ga.  
 Rock Hill, S. C.  
 Pittsburgh, Pa.  
 Franklin, Pa.  
 Cherryville, N. C.  
 Sanford, N. C.  
 Hagerstown, Md.  
 Philadelphia, Pa.  
 Brookfield, Conn.  
 Albany, N. Y.  
 Durham, N. C.  
 Norristown, Pa.  
 Mt. Airy, N. C.  
 Fort Lauderdale, Fla.  
 Williamsport, Pa.  
 Stamford, Conn.  
 Philadelphia, Pa.  
 Belvidere, N. J.  
 Milton, Mass.  
 White Plains, N. Y.  
 Ridgewood, N. J.  
 High Point, N. C.  
 Wilson, N. C.  
 Durham, N. C.  
 Johnstown, Pa.  
 Charleston, S. C.  
 Dunn, N. C.  
 Durham, N. C.  
 Harrisburg, Pa.  
 Clinton, N. C.  
 Salisbury, N. C.  
 Roanoke, Va.  
 Durham, N. C.  
 Cincinnati, O.  
 Miami, Fla.

Hymans, Edward Loomis  
 Iderton, Thomas Carey  
 Illingworth, William Arthur  
 Imlay, Carl Hudson  
 Imlay, Dean Wright  
 Imler, Robert Lee, Jr.  
 Irvin, Charles Warren, Jr.  
 Irwin, Warren Robert  
 Jackson, Delwood Serle  
 Jackson, Franklin Rowley  
 Jarrett, Lewis Franklin, Jr.  
 Jeuks, Charles Robert  
 Jensen, Robert Bruce  
 Jett, Charles Edward  
 Johnson, Allan Linner  
 Johnson, Joseph Edwin  
 Johnston, Leon Mack  
 Jones, Barney Lee, Jr.  
 Jones, Clayton Merle, Jr.  
 Jones, Paxton Lane  
 Jones, Sumner Prescott  
 Jordan, Faison Calvert  
 Kachelien, Jack Charles  
 Kanter, Hulbert Jay  
 Karmazin, Michael L.  
 Katz, Joseph  
 Keller, William Lordan  
 Kemp, Albert York  
 Kendrick, William Addison  
 Kenion, Alonzo Williams  
 Keyes, Kenneth Scofield, Jr.  
 Kimbrell, Robert Walker  
 Kindlund, Nelson  
 King, Preston Randolph  
 King, Samuel Cromer  
 Kinnard, Robert Leroy  
 Kinzle, Donn Eugene  
 Kirkman, P. V., Jr.  
 Kirkpatrick-Howat, Yvone  
 Kirsch, Robert Joseph  
 Knickerbocker, Austin Jay  
 Knight, Dick Victor  
 Knight, John Arthur  
 Knupp, James Edward  
 Kohler, Ervin Winston, Jr.  
 Kornblau, Leonard Aaron  
 Kough, William Henry  
 Koza, Robert Wayne  
 Lach, Steve John  
 Laker, John Bernard, Jr.  
 Langston, Thomas Edward  
 Lanning, Donald Dey  
 Larson, Erwin Andrew  
 Lawson, John Fuller  
 Lawson, Thomas Tinsley  
 Laybourne, Paul Curtis  
 Leet, Clifford Franklin  
 Le Gwin, John Bunyan  
 Leiby, James Shaffer  
 Leiper, Bartram Galbraith

Glen Rock, N. J.  
 High Point, N. C.  
 Nutley, N. J.  
 Washington, D. C.  
 Bordentown, N. J.  
 Tulsa, Okla.  
 Columbia, S. C.  
 McKees Rocks, Pa.  
 Durham, N. C.  
 Charlotte, N. C.  
 Albany, N. Y.  
 St. Johnsbury, Vt.  
 Union, N. J.  
 Elizabethtown, Tenn.  
 Minneapolis, Minn.  
 Branchville, N. J.  
 Durham, N. C.  
 Norfolk, Va.  
 Jamestown, N. Y.  
 Youngstown, O.  
 Swarthmore, Pa.  
 Shanghai, China  
 Jamestown, N. Y.  
 Newark, N. J.  
 Irwin, Pa.  
 Brooklyn, N. Y.  
 Bridgeport, Conn.  
 Syracuse, N. Y.  
 Saginaw, Mich.  
 Hillsboro, N. C.  
 Miami, Fla.  
 Charlotte, N. C.  
 Scituate, Mass.  
 Leesburg, Fla.  
 Winston-Salem, N. C.  
 Moultrie, Ga.  
 Altoona, Pa.  
 High Point, N. C.  
 Baltimore, Md.  
 Oak Park, Ill.  
 Bangall, N. Y.  
 Tampa, Fla.  
 Bamberg, S. C.  
 Detroit, Mich.  
 Yoe, Pa.  
 Wilkes-Barre, Pa.  
 Newport, Pa.  
 Cuyahoga Falls, O.  
 Altoona, Pa.  
 Highland Falls, N. Y.  
 Greensboro, N. C.  
 West Trenton, N. J.  
 Emporium, Pa.  
 Erwin, Tenn.  
 Erwin, Tenn.  
 Cuyahoga Falls, O.  
 Horseheads, N. Y.  
 Rockingham, N. C.  
 Tiffin, O.  
 Signal Mountain, Tenn.

Leone, Francis Joseph	Albany, N. Y.
Liles, George Welch	Charlotte, N. C.
Lineberry, William Taylor, Jr.	Colerain, N. C.
Link, Harvey Jay	Scranton, Pa.
Lipscomb, James Wilbur	Hinton, W. Va.
Little, James Eugene	Statesville, N. C.
Livingston, Richard Mayer	Chicago, Ill.
Lockwood, Lester Franklin	Tamaqua, Pa.
Lone, William, Jr.	Kearny, N. J.
Love, Harold John	Jamestown, N. Y.
Lovett, William Ervin	Dublin, Ga.
Luchans, Warren Felps	Brooklyn, N. Y.
Ludwig, William Morton	Chillicothe, O.
Lurie, Sidney Eugene	Springfield, Mass.
Lyles, George Washington	Thomasville, N. C.
McAdams, Charles Rupert, Jr.	Belmont, N. C.
McAdams, J. Glen, Jr.	Burlington, N. C.
McAfee, George Anderson	Ironton, O.
McAfee, Taylor Wesley	Ironton, O.
McCahan, William Glenn, Jr.	Langhorne, Pa.
McClees, Cecil Carr	Durham, N. C.
McClure, John Niel	Palmetto, Fla.
McClure, Roy Donaldson	Detroit, Mich.
McCrimmon, Hugh A., Jr.	Durham, N. C.
McCullough, Frederick Bertram	Edgewood, Pa.
McDonald, Arthur Allen, Jr.	Durham, N. C.
McDonough, Robert Walter	West Orange, N. J.
McGhee, James Thomas	Durham, N. C.
McGough, Robert Bennett	Towson, Md.
McGrory, James Willoughby	Rochester, N. Y.
McMahon, John Alexander	St. Petersburg, Fla.
McNulty, Frank Bacon, Jr.	Pittsburgh, Pa.
MacDade, Thomas Clark, Jr.	St. Albans, L. I., N. Y.
MacFeiggan, Jack Murray	Elmira, N. Y.
Maddox, Dan W.	Thomasville, N. C.
Madsen, Richard Laurids	Hastings-on-Hudson, N. Y.
Maguire, Francis Edwin	Lawrence, Mass.
Mair, Jesse John	Allentown, Pa.
Maloney, John Gregory	Pittsburgh, Pa.
Maloney, Thomas Martin	Clendenin, W. Va.
Maltby, Douglas Robinson	Wallingford, Conn.
Marion, James Matthew	Mt. Airy, N. C.
Marks, Edgar Seymour	Greensboro, N. C.
Marsh, Rolfe Sewell	Lansdowne, Pa.
Marshall, Robert Pickens	Washington, D. C.
Martin, Sherwood Earl	Kittanning, Pa.
Matthews, Walter Sidney, Jr.	Danville, Va.
Maultsby, Jefferson Woodrow	Durham, N. C.
Maxwell, Edward Wesley	Comus, Md.
Maxwell, Silas James	Pink Hill, N. C.
Mayes, Melvin S.	Durham, N. C.
Mayo, Louis Allen	Greenville, N. C.
Meara, Andrew James	Glen Rock, N. J.
Mees, Thomas Leo	Washington, D. C.
Melko, John Francis	Perth Amboy, N. J.
Merrill, Donald Candee	Harrisburg, Pa.
Mettam, John Wilson	St. Clair, Pa.
Mickelberry, William Crowder	Miami Beach, Fla.
Middleton, Robert Douglas	Brooklyn, N. Y.
Miller, Arthur Bernard	Bloomfield, N. J.

- Miller, Robert Barclay, Jr.  
 Mock, Clyde William  
 Montgomery, George Thomas  
 Moorman, Robert Maxey  
 Mugele, Thomas Bernard  
 Murphy, Fred George  
 Nance, Andrew  
 Nathan, Edward C.  
 Neary, Andrew Thomas  
 Neaves, Frederick Edward  
 Newsham, Richard Charles  
 Newton, Richard Frederic  
 Nicholson, Herbert Maurice  
 Nourse, John Darlington, Jr.  
 Nuchols, Ernest Benjamin, Jr.  
 Obenshain, Wiley Shackford, Jr.  
 Ochsenreiter, Edward John  
 Olsen, William Thomas  
 O'Mara, Bryan Joseph, Jr.  
 O'Neil, James William  
 Page, Billy Joe  
 Palmer, Charles Buckner  
 Palumbo, Leonard, Jr.  
 Parker, Martin Leonard  
 Pearce, James Tribble  
 Pedersen, Walter Eugene  
 Peggs, Frederick MacDonald  
 Penhallegon, Edward England  
 Pepper, James Arthur, Jr.  
 Perdue, Willard Charles  
 Perkins, Rex Beach  
 Perry, George Wendell  
 Phelps, John Howard, Jr.  
 Phillips, Charles Wilbert  
 Phillips, Creighton Wells, Jr.  
 Phillips, James Edwin  
 Phillips, William Hicks  
 Piasecky, Alex  
 Pierce, Carl Preston  
 Pierce, Richard Henry  
 Pittenger, Tress Ellsworth, Jr.  
 Platt, Harold Eugene  
 Plush, George Bevan, Jr.  
 Pope, John Edward  
 Pope, Warren House  
 Porter, Joseph Edward  
 Powell, Ralph Waldo  
 Power, John Owen, Jr.  
 Preer, Jack  
 Price, Glenn Frederick  
 Priddy, John Walter, III  
 Primel, Paul Edward  
 Prince, George Edward  
 Prince, Hugh Williamson, Jr.  
 Proctor, Richard Culpepper  
 Profenius, Henry Charles  
 Prothro, James Thompson  
 Prout, Huston Meredith  
 Puder, Robert Stuart  
 Purcell, Eugene George, Jr.  
 Long Branch, N. J.  
 Altoona, Pa.  
 Washington, D. C.  
 Washington, D. C.  
 Pittsburgh, Pa.  
 Jamestown, N. Y.  
 Cross Hill, S. C.  
 Lancaster, Wis.  
 Rochester, N. Y.  
 Long Branch, N. J.  
 Audubon, N. J.  
 Highland Park, N. J.  
 Suffield, Conn.  
 Cleveland Heights, O.  
 Cumberland, Va.  
 Charlotte, N. C.  
 Asheville, N. C.  
 Riverside, Ill.  
 Ashland, Ky.  
 Bound Brook, N. J.  
 Rock Hill, S. C.  
 Richmond, Va.  
 East Orange, N. J.  
 New York, N. Y.  
 Columbia, S. C.  
 Durham, N. C.  
 New York, N. Y.  
 Decatur, Ill.  
 Oriente, Cuba  
 Thomasville, N. C.  
 New Egypt, N. J.  
 Evanston, Ill.  
 Hartford, Conn.  
 Clairton, Pa.  
 Garden City, N. Y.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Jeannette, Pa.  
 Greenville, N. C.  
 Durham, N. C.  
 Akron, O.  
 Malba, N. Y.  
 Bangor, Pa.  
 Williamston, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Avondale Estates, Ga.  
 Follansbee, W. Va.  
 Daytona Beach, Fla.  
 Beaver Falls, Pa.  
 Wilson, N. C.  
 Cresson, Pa.  
 Dunn, N. C.  
 Dunn, N. C.  
 Oxford, N. C.  
 Millville, N. J.  
 Memphis, Tenn.  
 Columbus, O.  
 West Orange, N. J.  
 Erwin, N. C.



Raspberry, Joseph Conklin  
 Read, Bayard Taylor  
 Rees, Roberts Moss  
 Reisner, Leon, Jr.  
 Rhobotham, Frank Blaine  
 Ribar, Frank Andrew  
 Rice, Ralph Estes, Jr.  
 Richard, William Albert  
 Ridenhour, Joe Conrad  
 Ridgway, William Lant  
 Ritter, John Beatty, Jr.  
 Robertson, William Frye  
 Robison, Irvin Andrew  
 Rodgers, Billy Ansley  
 Rogers, Burr Adair  
 Rohrbach, Clayton John, Jr.  
 Roll, Frederick Joseph  
 Ross, Robert Harlan  
 Rouse, Robert Kelly  
 Rowe, Charles Austin, Jr.  
 Rudolph, Charles William, Jr.  
 Ruffa, Anthony  
 Rulon, David Bernard  
 Russell, Woodard Flemming  
 Ryan, Thomas Stone  
 Sacrinty, John George, Jr.  
 Sadlon, Edward William  
 San, James Matthew  
 Sanderson, Robert Arthur  
 Sargent, Edward Albert  
 Satterfield, James Ernest  
 Sauer, Richard Henry, Jr.  
 Saye, Wilburn Earle, Jr.  
 Schenkemeyer, William Lee  
 Schooley, James Robert  
 Scott, Byron Winfield  
 Scott, Harley Augustus, Jr.  
 Scott, Robert Thornton  
 Scruggs, Albert Finch  
 Seaman, Lewis Wilson, Jr.  
 Seaver, Nelson Hathaway, Jr.  
 Seeman, Wallace Emery, Jr.  
 Sellers, Frank Edwin  
 Selles, Julius James, Jr.  
 Senhauser, William Evans  
 Shackelford, Walter Eugene  
 Sharpe, Daniel Monroe, Jr.  
 Shingleton, Gerald Coburn  
 Shivers, Joseph Clois  
 Shokes, Edward Christopher  
 Shubrick, Edmund Templar  
 Siegfried, Winston Thomas  
 Siegfriedt, Alvin William  
 Sikkenga, Albert Leon  
 Simmons, Jack  
 Simpson, Joe Glenn  
 Simpson, Joseph Bradford, Jr.  
 Simpson, Richard Beaucaire  
 Slinn, Richard Quentin  
 Smith, Allan Clifford

Kinston, N. C.  
 Trenton, N. J.  
 Akron, O.  
 Long Branch, N. J.  
 Evanston, Ill.  
 West Aliquippa, Pa.  
 Dyersburg, Tenn.  
 Charlotte, N. C.  
 Kannapolis, N. C.  
 Evansville, Ind.  
 Collingswood, N. J.  
 Driver, Va.  
 Berwick, Pa.  
 Lakeland, Fla.  
 Wayland, N. Y.  
 Corning, N. Y.  
 Glen Cove, L. I., N. Y.  
 Helena, Ark.  
 Lexington, Ky.  
 Dallas, Texas  
 Asheville, N. C.  
 Washington, Pa.  
 Phoenixville, Pa.  
 Durham, N. C.  
 Trenton, N. J.  
 Reidsville, N. C.  
 Danbury, Conn.  
 St. Petersburg, Fla.  
 Aurora, Ill.  
 Arlington, N. J.  
 Durham, N. C.  
 Upper Darby, Pa.  
 Columbia, S. C.  
 Johnstown, Pa.  
 Wyoming, Pa.  
 Grosse Pointe, Mich.  
 Kannapolis, N. C.  
 Richmond, Va.  
 Berea, Ky.  
 Hempstead, N. Y.  
 Braintree, Mass.  
 Durham, N. C.  
 Norfolk, Va.  
 Ancon, Canal Zone, Panama  
 Zanesville, O.  
 Durham, N. C.  
 Hertford, N. C.  
 Wilson, N. C.  
 Riverton, N. J.  
 Charleston, S. C.  
 St. Petersburg, Fla.  
 Richmond, Va.  
 Merrick, L. I., N. Y.  
 London, England.  
 Palestine, W. Va.  
 Winston-Salem, N. C.  
 Charlotte, N. C.  
 Winston-Salem, N. C.  
 Spring Valley, N. Y.  
 Hartford, Conn.

Smith, Gerald Norton  
 Smith, Marshall Lee  
 Smith, William Bulkeley  
 Smith, Willis, Jr.  
 Smitheal, Green William, Jr.  
 Smyle, Ralph Stanley  
 Snyder, John Prentiss  
 Somerville, Donald Leonard  
 Sparks, James Mann  
 Spaulding, Hugh Carlyle  
 Spence, James Harrison  
 Spencer, Richard Payne  
 Spuhler, Raymond Henderson  
 Stackhouse, Donald Scott  
 Stanley, William Ezra, Jr.  
 Steel, Charles Leighton  
 Stein, Leon Herman  
 Stell, Franklin Howard  
 Stephens, Allan Wilbur  
 Stetler, Edwin Lohr  
 Stetler, Elvan  
 Stevenson, Donald  
 Stoeckel, John Rowland  
 Stomber, James Francis  
 Stone, Claiborne Young  
 Stonesifer, Edward Arthur, Jr.  
 Stow, James Henry  
 Sullivan, Edward James  
 Sullivan, George Logan  
 Sullivan, Harry Arthur  
 Sullivan, Harry Brownell  
 Summey, Gilmer Osborne  
 Sunas, Ernest Constantine  
 Surlas, Fred Achilles, Jr.  
 Sutherland, Frank Ellsworth  
 Swan, Willard Judson  
 Swiger, Kenneth Franklin  
 Symons, Richard Thurston  
 Talton, Wade Turnage  
 Tantum, Frank  
 Taylor, Franklin Walter  
 Taylor, Ralph Gordon, Jr.  
 Telling, Edward Riggs  
 Tenenbaum, Alfred Irwin  
 Tennille, André Townsend  
 Thaxton, Ben Clyde, Jr.  
 Thomas, William Milton  
 Thompson, Arthur Blair, Jr.  
 Thompson, Henry Samuel  
 Thompson, James Jasper  
 Thompson, Paul Claytor  
 Thompson, William West  
 Thorn, David Horace  
 Tompkins, Everett  
 Tonkel, Raymond David  
 Torma, John  
 Trakas, George Andrew  
 Tucker, John Wilson  
 Tuke, Theodore Robert  
 Turbert, Francis Joseph

Elmira, N. Y.  
 Jamestown, N. Y.  
 East Orange, N. J.  
 Raleigh, N. C.  
 Dyersburg, Tenn.  
 Ozone Park, N. Y.  
 Churchville, N. Y.  
 Cumberland, Md.  
 Watertown, Mass.  
 Durham, N. C.  
 Cleveland Heights, O.  
 Raleigh, N. C.  
 Johnstown, Pa.  
 Easton, Pa.  
 Durham, N. C.  
 West Englewood, N. J.  
 Charleston, W. Va.  
 Old Forge, N. Y.  
 Westfield, N. J.  
 Harrisburg, Pa.  
 York, Pa.  
 Meriden, Conn.  
 Georgetown, Dela.  
 Gardner, Mass.  
 Durham, N. C.  
 Baltimore, Md.  
 Metuchen, N. J.  
 Balboa, Canal Zone, Panama  
 Rockingham, N. C.  
 Frostproof, Fla.  
 St. Albans, N. Y.  
 Hillsboro, N. C.  
 Durham, N. C.  
 Mt. Vernon, O.  
 Rosebank, S. I., N. Y.  
 Livonia, N. Y.  
 Martins Ferry, O.  
 Baldwinsville, Mass.  
 Smithfield, N. C.  
 Nutley, N. J.  
 Morristown, Tenn.  
 Durham, N. C.  
 Danville, Ill.  
 Perth Amboy, N. J.  
 Winston-Salem, N. C.  
 Durham, N. C.  
 Scranton, Pa.  
 York, Pa.  
 Halifax, Va.  
 Goldsboro, N. C.  
 Reidsville, N. C.  
 Hallsboro, N. C.  
 Morrisville, Pa.  
 Concord, Mass.  
 Louisburg, N. C.  
 Williamson, W. Va.  
 Gastonia, N. C.  
 Mt. Holly, N. C.  
 Rochester, N. Y.  
 New Haven, Conn.

Vail, Ernest Denton	Middletown, N. Y.
Vennell, H. Everett	Doylestown, Pa.
Vey, Raymond Lewis	Hackettstown, N. J.
Vickery, Robert Fred	Philadelphia, Pa.
Vidal, Eugene Clark	Spring Valley, N. Y.
Vogel, Sheldon Alfred	New York City, N. Y.
Von Gal, Herbert Vreeland	Danbury, Conn.
Waas, Glyndon Heidt, Jr.	Fernandina, Fla.
Walker, Herbert William	Woodhaven, N. Y.
Wallace, John Chisholm	Troy, N. C.
Wallace, Oliver Clare, Jr.	Washington, Pa.
Wallace, Winfield Scott, Jr.	Ocean City, Md.
Walsh, Davis James	Germantown, Pa.
Warke, Henry James	Atlantic City, N. J.
Wartman, William Dorrance	Charlotte, N. C.
Weaver, Robert Glenn	Terre Hill, Pa.
Wehant, Lloyd Dixon	Cherryville, N. C.
Weiner, Melvin Herman	Brooklyn, N. Y.
Welch, Brian Grant	Hamburg, N. Y.
Welch, Harry Lee	High Point, N. C.
Wellons, Clarence William, Jr.	Farmville, N. C.
West, Marion Delton	Richmond, Va.
Whaley, Alexander Edward, Jr.	St. Cloud, Fla.
Whitcomb, Wayne Phillip	New London, Conn.
White, Zach Toms	Hertford, N. C.
Whitesides, Paul Caldwell	York, S. C.
Whitmire, James Carr	Asheville, N. C.
Whittington, Arthur Donnell	Durham, N. C.
Willets, Charles Augustus	Flushing, N. Y.
Williams, Ernest Alfred	Scarsdale, N. Y.
Williams, John Dunbar	Babylon, N. Y.
Wilson, Albert Henry	Winston-Salem, N. C.
Wilson, Henry Hall, Jr.	Monroe, N. C.
Wilson, Penrhyn, Jr.	Charlotte, N. C.
Wilson, Richard Moody	Ridgewood, N. J.
Wilson, Robert Addison	East Orange, N. J.
Wingender, Theodore George	Roselle Park, N. J.
Winston, Paul Dent	Pittsburgh, Pa.
Witham, Clayton Eastburn	Swarthmore, Pa.
Wohlleben, George Henry	Norwich, N. Y.
Wolfe, Nathan Forrest	Rocky Mount, N. C.
Wolff, Robert Alfred	Woodmere, N. Y.
Wood, George Samuel	Roanoke Rapids, N. C.
Wood, James Emmett, Jr.	Memphis, Tenn.
Woolley, John Russell, Jr.	West Long Branch, N. J.
Woolwine, William Cordell	Princeton, W. Va.
Wright, Douglas Samuel	Hagerstown, Md.
Wright, Ralph Wade	Pittsburgh, Pa.
Wright, Samuel Ernest, Jr.	Rocky Mount, N. C.
Yaden, James Edward	Washington, D. C.
Young, Clark Sutton	Lebanon, N. J.
Young, Raymond Andrew	Glen Rock, N. J.
Yount, Marvin Edward, Jr.	Graham, N. C.
Zinn, Charles Andrew	Altoona, Pa.
Zipse, Robert Joseph	Kew Gardens, N. Y.

## SOPHOMORE CLASS

Anderson, George Downey	Ballston Spa, N. Y.
Ange, Hubert Milton	Jamesville, N. C.

Arrington, Charles Hammond, Jr.  
 Atkins, Junius Ernest  
 Atwell, Robert James  
 Babenzien, Robert Max  
 Baeder, Robert Lester  
 Baetz, Wilfred George  
 Baily, Johnson Levering  
 Baker, James Fairfowl  
 Bane, William Hormell  
 Barnett, Robert Pray  
 Barnicoat, John Ellard  
 Bastien, Ralph Henry, Jr.  
 Beatty, William Ernest  
 Bechtel, Willis Raymond

Beck, John Adney  
 Beebe, James, Jr.  
 Beller, Sidney  
 Berry, John Henry  
 Bew, James William  
 Bigham, George Faunce  
 Bilane, Frank Joseph  
 Blackwell, Richard T.  
 Blalock, George Franklin  
 Bloodgood, Elwyn Lynotte  
 Boorman, Bruce Edward W.  
 Borah, William Norman  
 Bost, Carlton Hiram  
 Bost, Webb  
 Brand, Roscoe C.  
 Brenna, Joseph Dondiego  
 Brian, Arthur Walter  
 Brooks, Robert John  
 Broome, Robert Alexander, Jr.  
 Brown, Donald Ross  
 Brown, Edward Martin  
 Brown, Henry Clay, III  
 Brown, J. Robert C.  
 Brown, Richard Rintoul  
 Brownell, Robert William  
 Brust, Albert Adam, Jr.  
 Bunce, Edgar Fenn, Jr.  
 Bunn, Robert Hall  
 Burns, John Gordon  
 Bynum, Aaron Headen  
 Byrd, Bacchus Bright, Jr.  
 Calvin, Reginald Ross  
 Caneschi, Mayo Louis Amelio  
 Cann, John Edward  
 Cann, Robert Nelson  
 Carey, Charles Leo  
 Carll, Jesse Whilden  
 Carnrick, Millard, Jr.  
 Carr, Herbert  
 Carson, Howard Francis  
 Carswell, George Harrold  
 Carter, John Leslie  
 Champion, Battle Wilson  
 Chickering, William Alan  
 Clark, Carleton Climer

Rocky Mount, N. C.  
 Raleigh, N. C.  
 Chillicothe, O.  
 Ridgewood, Queens, N. Y.  
 Nutley, N. J.  
 Brooklyn, N. Y.  
 Canandaigua, N. Y.  
 Haddonfield, N. J.  
 Connellsville, Pa.  
 Albany, Ga.  
 Shawomet, R. I.  
 Grosse Pointe, Mich.  
 Litchfield, Conn.  
 Sterling Ridge,  
     Harrison, N. Y.  
 Manchester, N. H.  
 Lewes, Del.  
 Willimantic, Conn.  
 Reidsville, N. C.  
 Margate City, N. J.  
 Carnegie, Pa.  
 Irvington, N. J.  
 Rockford, Ill.  
 Dunn, N. C.  
 Scarsdale, N. Y.  
 Snyder, N. Y.  
 Big Run, Pa.  
 Charlotte, N. C.  
 Charlotte, N. C.  
 Steubenville, O.  
 Trenton, N. J.  
 Salem, O.  
 Winnetka, Ill.  
 Rocky Mount, N. C.  
 Grosse Ile, Mich.  
 Shreveport, La.  
 Palatka, Fla.  
 Brooksville, Fla.  
 Semickley, Pa.  
 Washington, D. C.  
 Chillicothe, O.  
 Glassboro, N. J.  
 Lorain, O.  
 Asheville, N. C.  
 Rock Hill, S. C.  
 Morristown, Tenn.  
 Hickman, Ky.  
 Meriden, Conn.  
 Greensboro, N. C.  
 Dorchester, Mass.  
 Lawrence, Mass.  
 Bridgeton, N. J.  
 Montclair, N. J.  
 Newfane, N. Y.  
 Charleroi, Pa.  
 Bainbridge, Ga.  
 East Orange, N. J.  
 Clayton, N. C.  
 Lakewood, O.  
 Middletown, O.

Clay, James Raymond, Jr.  
 Clees, James Cameron  
 Cliff, Benjamin Archibald  
 Cocke, William Booth  
 Collins, John Pope  
 Collins, Melville Nathaniel  
 Collins, Trela Dempsie, Jr.  
 Connar, Richard Grigsby  
 Conner, Henry Clay, Jr.  
 Cornell, Paul Adrian  
 Costic, Peter Jerome  
 Covey, William Crocket, Jr.  
 Cowdrick, Thomas William  
 Cox, William Biggs  
 Cox, Zach Davis  
 Cunningham, Henry Vernon  
 Curry, Robert Whitney  
 Curtis, Frederick William  
 Dacey, William John  
 Dailey, Frank Walter  
 Darnell, Leonard Johnson  
 Davis, Lawrence Columbus  
 Davis, Penrose Moore, Jr.  
 Davis, Thomas Jeffrey, Jr.  
 Davis, Walter Barney, Jr.  
 DeLancey, Charles Edward  
 DeLaney, Ernest Stanhope, Jr.  
 De Neumann, Arthur Ferdinand  
 de Quevedo, Rafael Garcia  
 DeVolentine, Joe Monroe  
 Dickey, James William, Jr.  
 Donnell, Edward Sebek  
 Donnelly, John Reynolds  
 Dotter, Charles Theodore  
 Dozier, John Marion  
 Drogue, Arthur Joseph, Jr.  
 Ducker, Andrew Leslie, Jr.  
 Duckett, Howard Casey, Jr.  
 Dunne, Steven Arthur  
 Eastwood, Frederick Thomas  
 Eldridge, Wade Hampton  
 Elliott, Joseph Alexander  
 Epperson, William Thomas  
 Erickson, Charles Winthrop  
 Everett, Lawrence Shaw  
 Falkenburg, Louis  
 Few, Eugene Cannon  
 Fike, Claude Edwin  
 Fike, Edward Lake  
 Files, Richard Webster  
 Fischer, Clifton Franklin  
 Fisher, John  
 Ford, James Arthur, Jr.  
 Forrest, William Kraemer  
 Foster, Lawrence Hubert  
 Fowler, Preston Leroy, Jr.  
 Fraley, Harry Howard  
 Frederick, Lewis Samuel, Jr.  
 Freeman, Philip Mansfield, Jr.  
 French, John Martin  
 Elizabeth, N. J.  
 Montoursville, Pa.  
 Hendersonville, N. C.  
 Charlotte, N. C.  
 Blackfoot, Idaho  
 Meridian, Miss.  
 Durham, N. C.  
 Rutherford, N. J.  
 East Orange, N. J.  
 Chicago, Ill.  
 Sayre, Pa.  
 Beckley, W. Va.  
 Philadelphia, Pa.  
 Winterville, N. C.  
 Mount Olive, N. C.  
 Durham, N. C.  
 Bradenton, Fla.  
 Reading, Pa.  
 Meriden, Conn.  
 Dunkirk, N. Y.  
 Winston-Salem, N. C.  
 Gastonia, N. C.  
 Downingtown, Pa.  
 Harrisville, W. Va.  
 Naugatuck, Conn.  
 New Rochelle, N. Y.  
 Charlotte, N. C.  
 Gloucester County, Va.  
 Chevy Chase, Md.  
 Coral Gables, Fla.  
 Fort Lauderdale, Fla.  
 Cleveland Heights, O.  
 Yonkers, N. Y.  
 Freeport, N. Y.  
 Rocky Mount, N. C.  
 New Britain, Conn.  
 Charlotte, N. C.  
 Memphis, Tenn.  
 Ticonderoga, N. Y.  
 Burlington, N. J.  
 Mt. Airy, N. C.  
 Charlotte, N. C.  
 Durham, N. C.  
 New Rochelle, N. Y.  
 Laurinburg, N. C.  
 Winnetka, Ill.  
 Atlanta, Ga.  
 Ahsokie, N. C.  
 Ahsokie, N. C.  
 East Orange, N. J.  
 Scranton, Pa.  
 De Leon Springs, Fla.  
 Orlando, Fla.  
 Orange, N. J.  
 Jenkintown, Pa.  
 Durham, N. C.  
 Cherryville, N. C.  
 Shelbyville, Ky.  
 New York, N. Y.  
 Washington, D. C.

- French, Raymond John  
 Frenzel, Charles Herman  
 Fulp, William Marshall  
 Gackenbach, Jack Daniel  
 Gaddy, Stephen Thomas  
 Garrett, Robert Pope  
 Gates, Warren James  
 Gell, Thomas Wesley  
 Geyer, Walter Pooley, Jr.  
 Gomer, Charles August  
 Gorman, Herbert Hamilton  
 Gottesman, Dan  
 Greathouse, Frank Lee  
 Greene, Cecil Shirley, Jr.  
 Greene, John Howard, Jr.  
 Gross, John Lewis  
 Guthrie, Frederick Gaynor, Jr.  
 Gwyn, Thomas Jack  
 Hackney, Edward June  
 Halstead, Earl Cottier, Jr.  
 Hancock, Robert Whitney  
 Hannigan, James Edward  
 Hardy, Jack Louis  
 Hargen, Theodore Merritt  
 Hawfield, Harold Houston  
 Hawkins, Louis Golson  
 Heath, Bayard Emerson, Jr.  
 Heddesheimer, William George  
 Heisinger, Donald Ernest  
 Henderson, Charles Jenkins  
 Henderson, Charles Tracy  
 Herold, Paul Garmer  
 Hewitt, Robert Patrick  
 Hewlett, John Divine  
 Holding, Willis Askew  
 Hollmeyer, Joseph Gerard  
 Holt, Malcolm Du Val  
 Honaker, William Clayton  
 Horton, William Sidney  
 Hoyer, Frank Osman  
 Huckabee, James Gaston, Jr.  
 Hunter, Robert  
 Huntoon, Hugh Sutton  
 Hutson, Albert Rawlings, Jr.  
 Ilinsky, Charles Adelbert  
 Ingham, Alfred Walker  
 Inks, Samuel Wesley, Jr.  
 Jackson, Ira Joel  
 Jamieson, David Mills  
 Jennings, Thomas Bland  
 Jerome, Jerry  
 Jessup, Julian Clyde  
 Johnson, Allen Starling, Jr.  
 Johnson, Gale Denning  
 Johnson, Samuel Theodore  
 Johnstone, Robert Dale  
 Jones, George Tyree  
 Jones, Horace Ellis  
 Jones, Paul Winthrop, Jr.  
 Jones, Robert Pepin, Jr.  
 Bridgeport, Conn.  
 Jamaica, N. Y.  
 Winston-Salem, N. C.  
 Kingston, Pa.  
 Durham, N. C.  
 Greensboro, N. C.  
 Durham, N. C.  
 Somerset, Mass.  
 Snyder, N. Y.  
 New York City, N. Y.  
 Hagerstown, Md.  
 Atlanta, Ga.  
 Rocky Mount, N. C.  
 Mount Sterling, Ky.  
 Slab Fork, W. Va.  
 North Braddock, Pa.  
 Erie, Pa.  
 San Francisco, Calif.  
 Durham, N. C.  
 Huntington, W. Va.  
 Garden City, N. Y.  
 Butler, N. J.  
 Goldsboro, N. C.  
 Worcester, Mass.  
 Concord, N. C.  
 Fort Deposit, Ala.  
 Robinson, Ill.  
 Yonkers, N. Y.  
 Stamford, Conn.  
 Charlotte, N. C.  
 Durham, N. C.  
 Baltimore, Md.  
 Asheville, N. C.  
 Long Island, N. Y.  
 Raleigh, N. C.  
 Mountain Lakes, N. J.  
 Lynchburg, Va.  
 Bluefield, W. Va.  
 Raleigh, N. C.  
 Brookline, Mass.  
 Durham, N. C.  
 Delanco, N. Y.  
 Fairbury, Ill.  
 Utica, N. Y.  
 Proctor, Vt.  
 New York, N. Y.  
 Dawson, Pa.  
 Omaha, Neb.  
 Patchogue, N. Y.  
 Durham, N. C.  
 Aurora, Ill.  
 Hertford, N. C.  
 Lexington, N. C.  
 Dunn, N. C.  
 St. Petersburg, Fla.  
 Munhall, Pa.  
 Durham, N. C.  
 Shillington, Pa.  
 Suffield, Conn.  
 Bayside, L. I., N. Y.



Jordan, John Sharpe  
Joyner, Aquilla H., Jr.  
Katzenmeyer, Jack William  
Keagy, Charles William  
Keeler, Richard Ashmead  
Kelley, Walter McCoy  
Kendall, Paul Cross  
Kernodle, William Henry  
Kerstetter, Nevin  
Killian, Frank Edward  
Kirkpatrick, Robert Ford  
Kister, Alfred Barber, Jr.  
Koenig, Helmut Paul  
Koenig, William August  
Kretser, Robert Edwin  
Kubek, Robert Bruce  
Ladd, Robert Dwinell  
Lamason, Robert Hopkins  
Lang, Cecil Yelverton  
Latham, James Farr  
Latimer, Collie Thomas, Jr.  
Lautares, George  
Lawrence, Stephen Reid  
Leeper, William Edward, Jr.  
Leitheiser, Karl Arthur  
Leland, Dexter Farnham  
Lengyel, Stephen James  
Lester, Robert MacDonald, Jr.  
Lewis, Dan  
Lewis, Harold Boyd, Jr.  
Lewis, Richard Edward  
Leys, Robert Sinclair  
Light, Frank Gristock  
Lineberger, Robert Henry  
Little, Robert Dickson  
Lively, Harold Heyson  
Lloyd, Cecil Cabot  
Long, Jesse Dobson, Jr.  
Long, Robert Fletcher  
Lose, Robert Norman  
McCloud, Robert Olmsted  
McCormick, Robert John, II  
McCutchen, Robert White, Jr.  
McDermott, Raymond Lipscomb  
MacGahan, John Alexander  
MacLeod, Gordon Campbell  
Maltby, Lucius Foote, Jr.  
Manning, Benjamin Everette  
Manry, Lawrence Edward  
Marsh, James White  
Martin, Garland Estes  
Martz, Edward Everts  
Megaw, Robert Neill Ellison  
Mellon, Robert  
Miles, Robert Lewis  
Miller, Robert Wallace  
Miller, Roy Paul  
Miller, William Ellsworth, Jr.  
Mitchell, Donald Campbell  
Moise, Francis Marion, Jr.  
Mount Airy, N. C.  
Morehead City, N. C.  
Lakewood, O.  
Altoona, Pa.  
Mount Airy, Philadelphia, Pa.  
Dublin, Ga.  
Rochester, N. Y.  
Durham, N. C.  
California, Pa.  
Beaver Falls, Pa.  
Worcester, Mass.  
Beechwood Park, Pa.  
Staten Island, N. Y.  
Montclair, N. J.  
Sharon, Pa.  
Cleveland Heights, O.  
Greenfield, Mass.  
Williamsport, Pa.  
Walstonburg, N. C.  
Hickory, N. C.  
Dunn, N. C.  
Greenville, N. C.  
Brooklyn, N. Y.  
Gastonia, N. C.  
Belleair, Fla.  
Hamilton, N. Y.  
Naugatuck, Conn.  
New York, N. Y.  
Danville, Ill.  
Asbury Park, N. J.  
Lakewood, O.  
Freeport, N. Y.  
Newtonville, Mass.  
Lincolnton, N. C.  
Raleigh, N. C.  
Jackson Heights, L. I., N. Y.  
University Station, N. C.  
Winston-Salem, N. C.  
Baltimore, Md.  
Philadelphia, Pa.  
Kenilworth, Ill.  
Wilmington, Del.  
Bishopville, S. C.  
Durham, N. C.  
Orange, N. J.  
Buffalo, N. Y.  
Wallingford, Conn.  
Williamston, N. C.  
Edison, Ga.  
Monroe, N. C.  
Salisbury, N. C.  
Durham, N. C.  
New York, N. Y.  
Durham, N. C.  
Danville, Va.  
Plainfield, N. J.  
Irwin, Pa.  
Sunbury, Pa.  
Winnetka, Ill.  
Sumter, S. C.

- Moody, James Donaldson  
 Moore, Benson Rogers  
 Moore, Robert Field  
 Moore, Tom Murphy  
 Moran, Joseph Paul  
 Morel, Edward LaSalle, Jr.  
 Morris, Arthur Allen, Jr.  
 Morris, Joseph Snowden  
 Morris, Sebastian Napoleon, Jr.  
 Mouk, Richard Charles  
 Moyer, Robert Holden  
 Muelenaer, Andre Albert  
 Mulligan, Aloysius Alphonsus  
 Munroe, Philip Reed  
 Murdick, Robert Gordon  
 Myers, Hugh Kennedy  
 Nania, John, Jr.  
 Nelson, Robert Lewis  
 Neuman, Frank Allen  
 Newman, Harold Hastings, Jr.  
 Nickel, Harry William  
 Norton, George Worthington  
 Odell, Robert Harris  
 O'Keefe, Francis Aloysius, Jr.  
 Olive, John Worth  
 Orr, John Barclay  
 Orton, James Richard  
 Owen, Judson Lewis, Jr.  
 Parke, Donald Wright  
 Parker, Richard Joseph, Jr.  
 Payton, John Edwin  
 Peirce, John Alden  
 Perkins, William Hale  
 Perry, Thomas  
 Peters, William Darius, Jr.  
 Peterson, Douglas Fayette  
 Pierce, Frank Chevallie  
 Pike, Robert Edgar  
 Pittman, Marvin Summers, II  
 Popp, Robert Alfred  
 Pratt, Clarence Hoar  
 Pray, Harold Erwin  
 Prillaman, David Crockett  
 Proctor, Richard Carlton  
 Ramsing, Byron Lee  
 Rankin, Douglas Rohrer  
 Rapoport, Herman Leonard  
 Rathbun, James Potter  
 Ratliff, Cliff, Jr.  
 Rencken, Donald Robert  
 Rhodes, Bernard Leonidas  
 Rhyne, Robert Smith  
 Rickerby, Arthur Burroughs  
 Riley, William Joseph, III  
 Robinson, Roger Walcott  
 Robinson, William Beverly, Jr.  
 Rogers, Stanfield  
 Ryon, David Osmond  
 Sadler, W. Thaddeus, Jr.  
 Sally, William Albert  
 East Brady, Pa.  
 East Gardner, Mass.  
 Sea Girt, N. J.  
 Louisville, Ky.  
 Staten Island, N. Y.  
 Staten Island, N. Y.  
 Winston-Salem, N. C.  
 Belmont, Mass.  
 Jasper, Ala.  
 South Orange, N. J.  
 Harrisburg, Pa.  
 Rosedale, L. I., N. Y.  
 Harrison, N. J.  
 Braintree, Mass.  
 Albany, N. Y.  
 Maplewood, N. J.  
 Middletown, N. Y.  
 New Berlin, N. Y.  
 Woodcliff, N. J.  
 Salisbury, N. C.  
 Maplewood, N. J.  
 Wheeling, W. Va.  
 Concord, N. C.  
 New York, N. Y.  
 Durham, N. C.  
 Miami Beach, Fla.  
 Lewes, Del.  
 Miami Beach, Fla.  
 Binghamton, N. Y.  
 El Paso, Texas  
 Cleveland, O.  
 Freeport, N. Y.  
 New Egypt, N. J.  
 Tampa, Fla.  
 Union City, N. J.  
 Winston-Salem, N. C.  
 Winchester, Va.  
 Philadelphia, Pa.  
 Statesboro, Ga.  
 Middletown, O.  
 Altoona, Pa.  
 Oak Park, Ill.  
 Southern Pines, N. C.  
 Bronxville, N. Y.  
 Oklahoma City, Okla.  
 Camp Hill, Pa.  
 Portsmouth, Va.  
 Fredonia, N. Y.  
 Morven, N. C.  
 Jamaica, N. Y.  
 Live Oak, Fla.  
 Ridgewood, N. J.  
 New York, N. Y.  
 Hollis, N. Y.  
 Concord, Mass.  
 Sayville, N. Y.  
 Dyersburg, Tenn.  
 Washington, D. C.  
 Raleigh, N. C.  
 Durham, N. C.

- Sanborn, Charles Francis  
 Sattenspiel, Edward  
 Satterwhite, Randall Griffin, Jr.  
 Schwarz, Robert Leickel  
 Senter, James David  
 Shane, Robert Clark  
 Shannehan, Donald Vincent  
 Shaw, James Maddock  
 Sheals, Ralph Augustus, Jr.  
 Shepard, Allen Samuel  
 Shields, Samuel Moyer  
 Shlimbaum, Charles William  
 Silva, John Matheson  
 Silverthorne, Mervin Clark  
 Skinner, Charles Boyd  
 Sloan, Robert Love  
 Smart, Tom Davis  
 Smith, Frank Monroe, Jr.  
 Smith, Harold Kenneth, Jr.  
 Smith, Robert Percy  
 Snow, James Wilbur  
 Sparks, Bayne Albert  
 Stanley, Horace Goodman  
 Stanwood, Arthur Webster  
 Stata, Charles Melvin  
 Stephens, Richard Lockwood  
 Stoddard, Charles Richards, Jr.  
 Stone, Donald Robert  
 Summers, Stanley Velsor, Jr.  
 Sutton, Bruce Leslie  
 Talcott, Jess Wingert  
 Taylor, Charles House  
 Taylor, Joseph W., Jr.  
 Telep, John Nicholas, II  
 Thomas, James Claiborne  
 Thompson, Eric Donald  
 Thompson, Samuel Adolphus  
 Tollison, Robert Lawton  
 Townsend, Bertram Fairley  
 Tracy, Charles Capper  
 Tyler, John Anderson, Jr.  
 Valasek, Cyril John  
 Vanderlinde, Robert James  
 Van Ness, Russell Dye  
 Vennema, John, Jr.  
 Vogdes, James McAllister, Jr.  
 Vogel, Robert Floyd  
 Wade, Henry King, Jr.  
 Wade, William Earl  
 Wade, William Wallace, Jr.  
 Walker, Judith Clement  
 Ward, Peter  
 Wascher, Howard Charles  
 Wedow, Sheridan Holly  
 Weit, Leon Forrest  
 Welch, Jack Tyler  
 Welsh, William Jamieson  
 Welton, William D., Jr.  
 Wentz, Henry Stauffer  
 West, George Collins, Jr.  
 East Orange, N. J.  
 Jersey City, N. J.  
 Rochester, N. Y.  
 Catasaugua, Pa.  
 Morristown, Tenn.  
 Washington, D. C.  
 Springfield, Mass.  
 Bronxville, N. Y.  
 Arlington, Va.  
 Palm Beach, Fla.  
 Lewes, Del.  
 Bay Shore, N. Y.  
 Hyannis, Mass.  
 Scarsdale, N. Y.  
 Hartsville, S. C.  
 Waynesville, N. C.  
 Fort Smith, Ark.  
 Allentown, N. J.  
 Jacksonville, Fla.  
 Portland, Ore.  
 Maryland, N. Y.  
 Washington, D. C.  
 Durham, N. C.  
 Waban, Mass.  
 Needham Heights, Mass.  
 Wilmington, Del.  
 New York, N. Y.  
 Kenmore, N. Y.  
 Syasset, L. I., N. Y.  
 Mount Olive, N. C.  
 Joliet, Ill.  
 Legion, Texas  
 Tampa, Fla.  
 Garfield, N. J.  
 Durham, N. C.  
 Montclair, N. J.  
 Mount Olive, N. C.  
 Vidalia, Ga.  
 Nutley, N. J.  
 Dayton, O.  
 Wagener, S. C.  
 Ford City, Pa.  
 Rochester, N. Y.  
 Miami, Fla.  
 Winnetka, Ill.  
 Edgewater Park, N. J.  
 Hackettstown, N. J.  
 Hot Springs, Ark.  
 Erwin, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Grosse Ile, Mich.  
 London, England  
 Chicago, Ill.  
 Ephrata, Pa.  
 New Haven, Conn.  
 Bayside, N. Y.  
 Pelham Manor, N. Y.  
 Leola, Pa.  
 Durham, N. C.

Wetmore, Robert Jackson  
 Whalen, Robert William  
 Whiteside, William Carl  
 Whiting, Jesse Evans  
 Whitman, Stanley Finch  
 Widgey, Rolande Carpenter  
 Williams, Hatcher Crenshaw  
 Williams, Thomas Richard, Jr.  
 Willmott, James Ian  
 Wilson, Eugene Glass  
 Winkin, John Worde, Jr.  
 Winterson, Alexander Frederick  
 Winterson, Howard Martin  
 Woody, John King  
 Woolner, Edward Sigmund, Jr.  
 Worcester, George Franklin, Jr.  
 Workman, Henry Dodge  
 Worrill, Edmund Hood  
 Wotrubez, Robert  
 Wratten, William Henry  
 Wright, John Edward  
 Yarborough, John Achibald  
 Yorke, Fred Grant  
 Zabriskie, George  
 Zbikowski, Francis William

Durham, N. C.  
 New Haven, Conn.  
 York, S. C.  
 Jamaica, N. Y.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Oxford, N. C.  
 Hickory, N. C.  
 Greenwich, Conn.  
 Winston-Salem, N. C.  
 Englewood, N. J.  
 Hempstead, L. I., N. Y.  
 Oradell, N. J.  
 Durham, N. C.  
 St. Petersburg, Fla.  
 Tenaflly, N. J.  
 Pensacola, Fla.  
 Leesburg, Fla.  
 New York, N. Y.  
 Haddon Heights, N. J.  
 Aurora, Ill.  
 Cary, N. C.  
 Bartley, W. Va.  
 Caldwell, N. J.  
 Terryville, Conn.

#### JUNIOR CLASS

Ade, William Henry, Jr.  
 Ader, Paul Fassett  
 Agnello, Samuel Anthony  
 Albee, Fred Houdlett, Jr.  
 Allen, Augustus Thomas, Jr.  
 Allison, James Tyler  
 Armstrong, Fred Williamson  
 Atkins, Wade Winston, Jr.  
 Auld, Fred Herron  
 Bailey, William Bradford  
 Baldwin, Alan Thorrestrup  
 Banks, Albert Lawrence  
 Bass, George Carlton  
 Battle, Guy Arthur  
 Baylor, Norman Stanley  
 Beckel, Frank Louis  
 Beightol, Guy Dixon  
 Bender, William Andrew, III  
 Benson, Charles Leonard  
 Berkeley, William Thomas, Jr.  
 Berner, Guy Pershing  
 Blake, Donald E.  
 Blake, Peter James, Jr.  
 Blanton, Neil Coron  
 Bolton, John Dewey  
 Bond, Borden Ray  
 Bone, Frank Cutchin  
 Bonnet, Joseph Lambert  
 Boutwell, Rufus Cecil, Jr.  
 Bowman, James Spicer  
 Brett, Lawrence, Jr.  
 Bridgers, Ben Cole, Jr.

Chicago, Ill.  
 Coleridge, N. C.  
 Jamestown, N. J.  
 Venice, Fla.  
 Raleigh, N. C.  
 Oswego, N. Y.  
 Gastonia, N. C.  
 Greensboro, N. C.  
 Charleston, W. Va.  
 Rochester, N. Y.  
 Wilmington, Del.  
 Somerville, N. J.  
 Binghamton, N. Y.  
 Sumter, S. C.  
 Washington, N. J.  
 Huntington, Pa.  
 Cumberland, Md.  
 Upper Darby, Pa.  
 Tamaqua, Pa.  
 Durham, N. C.  
 Buffalo, N. Y.  
 New Rochelle, N. Y.  
 New Hartford, N. Y.  
 Shelby, N. C.  
 Pelham, N. Y.  
 Hyannis, Mass.  
 Rocky Mount, N. C.  
 Orange, N. J.  
 Durham, N. C.  
 Harrisburg, Pa.  
 Wilson, N. C.  
 Durham, N. C.

Brinn, Rufus Timothy  
Brooks, Clyde Spear  
Brown, Morrison Ropes  
Brown, Travers Gatewood, Jr.  
Browning, John Duron  
Brush, Richard Felton  
Butler, Jack Floyd  
Campbell, Carl Capper  
Carlton, Leffie Mahon, Jr.  
Carter, James Walter, Jr.  
Caskey, Claude O'Dell, Jr.  
Chapman, John Franklin  
Church, Forest Edward  
Clarke, Finley Theodore, Jr.  
Cobleigh, Nelson Stevens  
Cogswell, Sumter Aldage  
Cole, George Davis, Jr.  
Coplan, Edwin  
Cotter, Norman Bernard  
Craig, J. Robert  
Craven, Clyde Rober, Jr.  
Cree, John Franklin  
Crigler, John Fielding, Jr.  
Culbreth, George Bernice  
Culbreth, George Gordon  
Culp, Raymond Beatty  
Davenport, John Purinton  
Dawson, Archibald Nail  
Denny, Dan  
Diller, Fred Eugene  
Dimond, Charles Leigh  
Donnelly, Raymond William  
Dube, Bertram James  
Duncan, James Rankin, Jr.  
Eagles, William McCoy  
Eager, Howard  
Eaves, Willard Howard  
Eitner, Lorenz Xenophon  
Eldridge, Fred Phillips  
Elias, Bernard Lane  
Emmett, David William  
Emory, Earl Leroy, Jr.  
Enfield, Samuel Ernest  
Erich, Frederick Walter  
Erickson, Elmer William  
Eubanks, Ira Sankey, Jr.  
Everett, Robert James  
Farrell, John Cahill  
Fitzgerald, James Morgan, Jr.  
Flentye, William Henry  
Fletcher, Theodore Roger  
Fogg, Charles Watson  
Forrester, Roy William  
Forssell, Gustav Frederick  
Friedlander, Max  
Fuston, Sam Del  
Galbreath, Jack Baylor  
Gardner, Joseph Tate  
Garlock, Harold George  
Garrett, Norvin Wile

Hertford, N. C.  
Bellevue, Pa.  
Swampscott, Mass.  
Brooksville, Fla.  
Daytona Beach, Fla.  
St. Albans, Vt.  
Canandaigua, N. Y.  
Asheville, N. C.  
Wanchula, Fla.  
Washington, D. C.  
Martinsburg, W. Va.  
Hagerstown, Md.  
Winston-Salem, N. C.  
Morganton, N. C.  
White Plains, N. Y.  
Chattanooga, Tenn.  
Newport News, Va.  
Columbia, S. C.  
Chattanooga, Tenn.  
Clarksburg, W. Va.  
Charlotte, N. C.  
Sunbury, Pa.  
Charlotte, N. C.  
Rocky Mount, N. C.  
Sanford, N. C.  
Harrisburg, Pa.  
Washington, D. C.  
Lakewood, O.  
Harriman, Tenn.  
McComb, O.  
Baltimore, Md.  
South Norwalk, Conn.  
Hudson Falls, N. Y.  
Jeannette, Pa.  
Fountain, N. C.  
Burlington, Vt.  
Athens, Tenn.  
New York City  
Rouses Point, N. Y.  
Asheville, N. C.  
New York, N. Y.  
Washington, N. C.  
Cumberland, Md.  
Jamaica, N. Y.  
Irwin, Pa.  
Durham, N. C.  
Kingston, N. Y.  
Norwich, N. Y.  
Wilson, N. C.  
Aurora, Ill.  
Scarsdale, N. Y.  
Washington, D. C.  
Dillon, Montana  
Staten Island, N. Y.  
Moultrie, Ga.  
Murfreesboro, Tenn.  
Benham, N. Y.  
Miami, Fla.  
Lockport, N. Y.  
Ahoskie, N. C.

- Garrick, Donald David  
 Gattis, Walter Robert, Jr.  
 Gerard, Frank Hight  
 Goat, Arthur Fred  
 Gobble, Fleetus Lee, Jr.  
 Goldberg, Robert Abraham  
 Goldstein, Joseph Abraham  
 Goode, Thomas Vance, Jr.  
 Gray, Duncan Campbell  
 Griffin, Gerald Laurens  
 Gross, Alvin Solomon  
 Guerry, Davenport, Jr.  
 Haas, Morton V. B., Jr.  
 Haas, Robert Otto  
 Hacker, John Pierce, Jr.  
 Halsema, James Julius  
 Hammell, John Gaunt  
 Handeyside, Bruce Raymo  
 Hanig, William Fred  
 Hank, Oscar Charles  
 Hanlon, Thomas Joseph  
 Hardie, Dwight Wooster  
 Hart, Bertram Willoughby, Jr.  
 Hastings, Thomas Johnston, Jr.  
 Hauser, Edward Michael  
 Hayes, Maurice Lawrence  
 Heaton, Robert Earl  
 Heller, Robert Chester  
 Hiatt, Wilks Otho, Jr.  
 Himadi, David Ellsworth  
 Hobbs, Frederick Thomas  
 Hoffman, William James  
 Hollyday, John Samuel  
 Horger, Eugene Leroy, Jr.  
 House, Ralph Dunford  
 Howard, Henry Lee  
 Howe, Elliott Harroun  
 Hubbell, Jay Broadus, Jr.  
 Huck, William Richard  
 Hull, Burnett Norton  
 Ingram, Charles Hal  
 Irving, Henry Vere  
 Jaffey, Herbert  
 Jenkins, William Adrian, Jr.  
 Jester, Norman Towson  
 Johantgen, Richard Francis  
 John, Winfield Clinton  
 Johnson, William Louis  
 Jones, Martin Evans, Jr.  
 Jones, Ralph Jacob, Jr.  
 Kasik, Charles, Jr.  
 Kelly, Converse Beach  
 Kemper, Charles Alexander  
 Kendrick, Jack Omer  
 Kerr, Walter James  
 Keusch, Allan William  
 Knight, Richard Wallace  
 Kollmar, Robert  
 Lamb, Robert Gilmore  
 Lange, John Arthur  
 Naugatuck, Conn.  
 Durham, N. C.  
 Drexel Hill, Pa.  
 Brooklyn, N. Y.  
 Winston-Salem, N. C.  
 North Conway, N. H.  
 Salem, N. J.  
 Statesville, N. C.  
 Pelham, N. Y.  
 New York, N. Y.  
 Atlanta, Ga.  
 Macon, Ga.  
 Savannah, Ga.  
 New York, N. Y.  
 Detroit, Mich.  
 Bagnio, Philippines  
 Red Bank, N. J.  
 Wayne, Mich.  
 Elmhurst, N. Y.  
 Paducah, Ky.  
 Scarsdale, N. Y.  
 Binghamton, N. Y.  
 Auburndale, Fla.  
 Westfield, N. J.  
 Glenside, Pa.  
 New York, N. Y.  
 Andrews, N. C.  
 East Orange, N. J.  
 Savannah, Ga.  
 Ridgewood, N. J.  
 Wilmington, N. C.  
 Hyannis, Mass.  
 Funkstown, Md.  
 Columbia, S. C.  
 Zebulon, N. C.  
 Savannah, Ga.  
 Fulton, N. Y.  
 Durham, N. C.  
 Bloomfield, N. J.  
 Rome, Ga.  
 High Point, N. C.  
 Edmonton, Alberta, Canada  
 Somerville, N. J.  
 Elkin, N. C.  
 Washington, D. C.  
 Dansville, N. Y.  
 Uniontown, Pa.  
 Wheeling, W. Va.  
 Granite Falls, N. C.  
 Jamaica Plain, Mass.  
 Milwaukee, Wis.  
 Germantown, Pa.  
 Baltimore, Md.  
 Ripley, Miss.  
 Rumson, N. J.  
 Morristown, N. J.  
 Middletown, N. Y.  
 Maplewood, N. J.  
 Rochester, N. Y.  
 Salineville, O.



Laning, Eugene LaRue, Jr.  
Latimer, Clarence Vinette, Jr.  
Lautz, Robert Warren  
Lee, Francis Brown  
Leland, Stuart Brandon  
Lentz, John Luther  
Leopoldt, Richard Warren  
Levine, Edwin R.  
Levy, Herbert Fies  
Lewis, Philip  
Little, Brooks Bivens  
Long, Max Bickford  
Lunsford, Foy Lee  
Lybrook, Robert Murray  
Lyle, John Robert  
McMackin, Frank Joseph  
McMillin, Elbert Raymond, Jr.  
McNeilly, John Jere  
MacGillivray, Roswell Fred  
Maddern, Whitby Kingston  
Malone, Thomas Patrick  
Mariani, Roland Giulio  
Marlowe, Rufus Edward  
Mason, Walter Harrison  
Megaw, Wesley Ellison  
Melson, Robert Henry  
Melson, Thomas Warren  
Melville, Lincoln Raymond  
Mercer, Cassa Jay, Jr.  
Miller, Graham Conrad  
Mitchell, Henry Reid, Jr.  
Mochring, Wallace Oher  
Moffett, Robert Preyer  
Montfort, Robert John  
Moore, James LeGrand  
Morgan, Horace Lee  
Morningstar, James Irvin  
Morrow, Thomas Camill  
Mugele, Charles Peter  
Neill, Dugald Tucker  
Nelson, Herman Berg  
Neuburger, Robert Frank  
O'Mara, Robert James  
O'Neil, Robert Edward  
Onken, Fred Ludwig  
Owen, Murray Harris  
Owens, Herman Franklin  
Palmer, Jack Keith  
Park, Robert Laughlin  
Parsons, William Kantner  
Paschall, Taylor Hill  
Peabody, Arthur William  
Penfield, Addison Pierce  
Perry, John Siler  
Powers, Leonard Stewart  
Price, Theodore Edwin  
Pulliam, Samuel Thompson  
Ralston, Adolph Henry  
Range, James Jacob  
Reavis, Hubert Rankin

Bridgeton, N. J.  
Deposit, N. Y.  
Buffalo, N. Y.  
Monroe, N. C.  
New Canaan, Conn.  
Durham, N. C.  
Glen Rock, N. J.  
Hancock, N. Y.  
Birmingham, Ala.  
Cochran, Ga.  
Fayetteville, N. C.  
Roxboro, N. C.  
Durham, N. C.  
Advance, N. C.  
Bloomsburg, Pa.  
Jersey City, N. J.  
Fayetteville, Tenn.  
Seaford, Del.  
Westfield, N. J.  
Branford, Conn.  
Mahanoy City, Pa.  
Rumson, N. J.  
Wilson, N. C.  
New York, N. Y.  
New York, N. Y.  
Forty Fort, Pa.  
Forty Fort, Pa.  
Buffalo, N. Y.  
Baldwinsville, N. Y.  
Miami, Fla.  
Washington, N. C.  
Orangeburg, N. Y.  
Greensboro, N. C.  
Queens Village, N. Y.  
Raleigh, N. C.  
Savannah, Ga.  
Dawson, Pa.  
Buffalo, N. Y.  
Pittsburgh, Pa.  
Bayside, L. I., N. Y.  
Tamaqua, Pa.  
Maplewood, N. J.  
Ashland, Ky.  
Hyannis Port, Mass.  
Brooklyn, N. Y.  
Stratford, Conn.  
Fountain, N. C.  
Delmar, N. Y.  
Washington, D. C.  
Altoona, Pa.  
Durham, N. C.  
Holden, Mass.  
Meriden, Conn.  
Durham, N. C.  
Mayodan, N. C.  
Maplewood, N. J.  
Richmond, Va.  
Middlesboro, Ky.  
Johnson City, Tenn.  
Briscoe, Texas

- Reynolds, John Bradley  
 Reynolds, Thomas Davies  
 Rice, Robert Coleman, Jr.  
 Richards, John Wendell  
 Richardson, John Woodward, Jr.  
 Roach, Benjamin Franklin  
 Robb, Spencer Hamilton  
 Roberts, William Wallace  
 Robinson, Theodore Montgomery  
 Rodgers, Francis Marion, III  
 Rowan, John William  
 Rowley, Kenneth Johnson  
 Rue, Willard Hansell  
 Ruff, Gordon McAllister  
 Ruskin, Richard Allan  
 Russell, Henry Hawley  
 Sanford, Daniel D., Jr.  
 Satterthwaite, Joshua Paul, Jr.  
 Schlear, Edward Kenneth  
 Searight, Henry Brown, Jr.  
 Seeberg, Gordon Allan  
 Shannon, Charles Eugene  
 Shinn, John Lloyd, Jr.  
 Shoaf, Francis Arista  
 Simmons, Clarence Frederick, Jr.  
 Singleton, George Washington Freeman  
 Sirven, Faustino Alberto  
 Sleight, Robert Edgar  
 Smith, Harwood Thomas  
 Smith, Robert Ross  
 Snyder, George K.  
 Sommers, Paul Adams  
 Souders, Floyd Benton  
 Spaeth, Walter, Jr.  
 Spangler, Robert Frank  
 Sprott, Thomas Zenas, Jr.  
 Staley, Edwin Lewis  
 Starks, Richard Samuel  
 Stetler, Nevin  
 Stewart, John Siegfried  
 Stivers, Robert Winthrop  
 Stone, George Henry, Jr.  
 Stone, Zeb Judd  
 Strausbaugh, John Dean  
 Strickland, Fred Paul  
 Strickland, Roscoe Lee, Jr.  
 Struble, Albert  
 Stubbs, David Leon, Jr.  
 Stull, Richard John  
 Summerville, Alexander  
 Sweeney, John William, Jr.  
 Swindell, Edmund Slade, Jr.  
 Tally, Joseph Oscar, Jr.  
 Thomas, John Howard  
 Thompson, Evan Lewis  
 Tischler, Warren William  
 Towne, Robert Danforth  
 Townsend, Roswell George  
 Trabue, Douglas Small  
 Turner, Linwood Lee, Jr.  
 Mount Savage, Md.  
 Asheville, N. C.  
 Lakewood, O.  
 Scranton, Pa.  
 White Plains, N. Y.  
 Midway, Ky.  
 Athens, Tenn.  
 Brooklyn, N. Y.  
 Flushing, N. Y.  
 Detroit, Mich.  
 Dansville, N. Y.  
 Hamden, Conn.  
 Bryn Mawr, Pa.  
 Tenafly, N. J.  
 New Rochelle, N. Y.  
 Coral Gables, Fla.  
 Garden City, N. Y.  
 Westfield, N. J.  
 Hamburg, Pa.  
 Washington, N. C.  
 Ansonia, Conn.  
 Monroe, N. C.  
 Sylacauga, Ala.  
 Kokomo, Ind.  
 Rockville Centre, N. Y.  
 Selma, Ala.  
 Florida, Cuba  
 Staten Island, N. Y.  
 Petersburg, Va.  
 Maplewood, N. J.  
 Williamsport, Pa.  
 Maplewood, N. J.  
 Fayetteville, N. C.  
 Southern Pines, N. C.  
 Newport News, Va.  
 Charlotte, N. C.  
 Harrisburg, Pa.  
 Midway, Ky.  
 York, Pa.  
 Warren, Pa.  
 Maplewood, N. J.  
 Worcester, Mass.  
 Durham, N. C.  
 Columbus, O.  
 Cincinnati, O.  
 Maplewood, N. J.  
 Bellevue, Pa.  
 Aurora, N. C.  
 Washington, Pa.  
 Caldwell, N. J.  
 Kingston, N. Y.  
 Durham, N. C.  
 Fayetteville, N. C.  
 Philadelphia, Pa.  
 Taunton, Mass.  
 Glendale, N. Y.  
 St. Petersburg, Fla.  
 Staten Island, N. Y.  
 State College, Pa.  
 Durham, N. C.

Unger, Maurice Albert  
 Veal, Curry Speed  
 Vernon, Leonard Joseph  
 Vincent, Orville Holt  
 Wagner, Charles Norval  
 Wagner, John William, Jr.  
 Wagner, Walter  
 Waldron, Robert Edward  
 Wall, George W., Jr.  
 Walter, Edward Henry  
 Wanzer, Charles Robert  
 Watson, Jack Lawrence  
 Watson, Walter Brown  
 Weith, Archie James, Jr.  
 Wert, Robert Wesley  
 West, Chester Albert  
 Whitford, James Bryan  
 Williams, Bailev Needham  
 Williams, Charles Bray  
 Williams, Linwood Roger  
 Williams, Sam Charles  
 Williamson, James Clay, Jr.  
 Wilson, Henry Merryman  
 Witmer, Norman Davis  
 Wolf, Jerome Douglas  
 Worth, Thomas Clarkson, Jr.  
 Wylie, Marvin Miller  
 Young, Cabell, Jr.  
 Zavalris, Peter

Patchogue, N. Y.  
 Madisonville, Ky.  
 Orange, N. J.  
 Oak Park, Ill.  
 Baltimore, Md.  
 St. Petersburg, Fla.  
 Newport, Ky.  
 Youngs, N. Y.  
 Philadelphia, Pa.  
 Scarsdale, N. Y.  
 Charlotte, N. C.  
 Charlotte, N. C.  
 Belleville, N. J.  
 Caldwell, N. J.  
 Westmont, N. J.  
 Evanston, Ill.  
 New Bern, N. C.  
 Shiloh, N. C.  
 Shiloh, N. C.  
 Bowie, Md.  
 Easley, S. C.  
 Gastonia, N. C.  
 Charlotte, N. C.  
 Hanover, Pa.  
 Webster Groves, Mo.  
 Durham, N. C.  
 Princeton, Ky.  
 Charlotte, N. C.  
 Indiana, Pa.

## SENIOR CLASS

Alabaster, Robert Bliss  
 Albright, Robert Taft  
 Baker, Ellis Thomson  
 \*Baldwin, John Paul  
 Baldwin, William Edwin, Jr.  
 Bard, Donald Gibson, Jr.  
 Barnes, Jack Carlyle  
 Bassett, Roderick Emerson  
 Beaman, John Robert  
 Beckel, Willis Spangler  
 Belk, William Henry  
 Bell, George Edington, Jr.  
 Berger, William Arthur  
 Bergman, Russell  
 \*Bew, David Fitzsimons  
 Bigger, William Parker  
 Bolte, Henry Ferdinand  
 Bowen, James Darrel  
 Bowers, Henry Franklin  
 Braynard, Francis Osborn  
 Britton, John Bossard, Jr.  
 Britz, Matthew Leopold  
 Brogan, James Michael  
 Brown, Arthur Collins  
 Brown, Theron Hart, III  
 Bunn, Charles Ivy  
 Burhans, James Lewis

Baldwin, L. I., N. Y.  
 Norfolk, Va.  
 Baltimore, Md.  
 Rochester, Pa.  
 Dunn, N. C.  
 Pleasantville, N. Y.  
 Greensboro, N. C.  
 Danbury, Conn.  
 Arlington, Va.  
 Huntingdon, Pa.  
 Charlotte, N. C.  
 Rockville, Md.  
 Rahway, N. J.  
 Madison, N. J.  
 Margate City, N. J.  
 Pyengyang, Korea  
 Elmhurst, N. Y.  
 Williamston, N. C.  
 Petersburg, Va.  
 Glen Cove, N. Y.  
 Sumter, S. C.  
 Winston-Salem, N. C.  
 Richmond, Va.  
 Bethel, Conn.  
 Jackson Heights, N. Y.  
 Spring Hope, N. C.  
 Dunbar, Pa.

\* Requirements for graduation completed in Summer School, 1938.

- Burleson, Norris Mervin  
 Butler, Willis  
 \*Carpenter, John George  
 Carter, Clayton Cann  
 Caskey, John Thomas  
 Chang, Keui Hyung  
 Chatham, Alex, Jr.  
 Clark, Morris McCauley  
 Clarke, Richard Norton  
 \*Clement, Robert Alden  
 Cobb, Irvin Wilson, Jr.  
 Cook, D. S. Taylor  
 Coppedge, Everette Peter, Jr.  
 \*Covington, John Walter, Jr.  
 Cox, Arthur Hunter  
 Craven, James Braxton, Jr.  
 Crawford, Robert Gunn  
 Crawley, James Woodrow  
 Crowell, George Henry, Jr.  
 Crumpacker, William Johnson  
 Daane, James Dewey  
 Danner, Edgar LeMoine  
 Davis, Thomas Edgar, Jr.  
 Der Tatevasian, Roosevelt Augustus  
 \*Deupree, William James, Jr.  
 Dibeler, Vernon Hamilton  
 Dollard, John Taff  
 Donovan, Frederick Reynold  
 Doyle, William Stowell  
 Drake, Elmer Frederick  
 Drake, William Exall  
 \*Duncan, Leroy Edward, Jr.  
 Dworsky, Bernard Ezra  
 \*Edwards, James Francis  
 Elder, Guy Hampton, Jr.  
 \*Fair, David Arthur  
 \*Faulkner, Clifford Ross  
 \*Ferguson, Benjamin Troy, Jr.  
 Ferris, H. Alexander  
 Few, Kendrick Sheffield  
 Finn, Walter Robert  
 Fischer, Adolphe Gordon  
 Fleetwood, John Kenneth  
 Fliflet, Arne Thorlief  
 Floyd, Hal Stanfield  
 Foote, Theodore  
 Forlines, John Arthur, Jr.  
 Forsberg, Raynor Morgan  
 Franck, William Francis, Jr.  
 Freidlin, Julius N.  
 French, Charles Ferris  
 Funkhouser, J. Ott, Jr.  
 Furlong, John Hamilton, Jr.  
 Gair, Russell Alexander, Jr.  
 Gallo, Fred John  
 Gamsby, John Woodruff  
 Gibson, Jephtha Nelson, Jr.  
 Glasson, John  
 Goehrig, Jack Appleget  
 Port Allegany, Pa.  
 Shreveport, La.  
 Hague, N. Y.  
 Centreville, Md.  
 Washington, D. C.  
 Kyung-Hueng, Korea  
 Elkin, N. C.  
 Philadelphia, Tenn.  
 New York, N. Y.  
 Durham, N. C.  
 Winston-Salem, N. C.  
 Kenmore, N. Y.  
 Cleveland Heights, O.  
 Rockingham, N. C.  
 Shaker Heights, O.  
 Greensboro, N. C.  
 West Point, Miss.  
 Greensboro, N. C.  
 High Point, N. C.  
 Durham, N. C.  
 Grand Rapids, Mich.  
 Larchmont, N. Y.  
 Rockingham, N. C.  
 North Braddock, Pa.  
 Fort Mitchell, Ky.  
 Roselle Park, N. J.  
 Great Lakes, Ill.  
 Newark, N. J.  
 Lowell, Mich.  
 Roselle Park, N. J.  
 East Orange, N. J.  
 Norfolk, Va.  
 Durham, N. C.  
 Oxford, N. C.  
 Columbia, S. C.  
 Altoona, Pa.  
 Elmhurst, N. Y.  
 Raleigh, N. C.  
 New York, N. Y.  
 Durham, N. C.  
 Palmyra, N. J.  
 Baltimore, Md.  
 Seaford, Del.  
 Mountain Lakes, N. J.  
 Fairmont, N. C.  
 East Orange, N. J.  
 Durham, N. C.  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Mountain Lakes, N. J.  
 Hagerstown, Md.  
 Chester, Pa.  
 Norwich, N. Y.  
 Vineland, N. J.  
 New Haven, Conn.  
 Gibson, N. C.  
 Durham, N. C.  
 Trenton, N. J.

\* Requirements for graduation completed in Summer School, 1938.

- Goode, Richard William  
 \*Greenwood, Porter C.  
 Gregg, William Riley  
 Hancock, Albert Delos  
 Harris, Douglas Leroy  
 Hartlieb, Robert Louis  
 Harvey, Harold E.  
 \*Haufler, Robert Cooke  
 Hayes, Kiffin Y. Rockwell  
 Herman, Samuel  
 Hickey, Andrew John  
 Hill, Dan Winfield, Jr.  
 Hobgood, Alton Arthur  
 Hodde, Henry Busch  
 Hoggan, Laurence Edward  
 Holmes, Reid Thomas  
 \*Hooten, Charles Edwards  
 Horack, Benjamin Shambrough  
 \*Horne, Stephen Francis  
 Howard, John Couper  
 Hoyle, David Wade  
 Hudson, W. Hill, Jr.  
 Hulme, William Speer, N.  
 Hutchison, John Grosvenor  
 Inglis, Edward Sylvester  
 Ingraham, Dorman Carlton  
 Ingram, John Edgar  
 Irwin, William Madison  
 Jackson, Henry Wirt  
 James, Walter Delos  
 Jancsics, Mathew Joseph  
 Johnson, Edward Harold, Jr.  
 Johnson, John Norborn  
 Johnson, Walter Christopher, Jr.  
 Jones, Curtis Scott  
 Jones, Paul Kingsbury  
 Jordan, Macon  
 Kahle, John Roscoe  
 Kerr, Ben Ransom  
 Kidd, Stephen  
 Kingsbury, Curtis Lusk  
 Koerner, John Maxwell  
 \*Kogelschatz, Louis William  
 Lambeth, Ralph MacAulay  
 Landreth, Charles E.  
 Leckie, James Alexander  
 Levinson, Joe Herman  
 Levy, Leonard Daniel  
 Lewis, Richard Quarles  
 Lohman, Robert Maurice  
 Lovell, Ernest James, Jr.  
 \*Lowell, Herbert G., Jr.  
 Lowenstein, Herbert Roof  
 Lyons, Wilbert A.  
 Lyttle, John Logan  
 \*McLain, William Campbell, Jr.  
 McGimsey, James Franks, Jr.  
 McKenzie, Lionel Wilfred  
 MacDonald, Richard Watson  
 Newton, Mass.  
 Mountain Rest, S. C.  
 Durham, N. C.  
 Port Washington, N. Y.  
 Fort Pierce, Fla.  
 Wantagh, N. Y.  
 Sprague, W. Va.  
 East Orange, N. J.  
 Charlotte, N. C.  
 Savannah, Ga.  
 Staten Island, N. Y.  
 Asheville, N. C.  
 Durham, N. C.  
 Highland Park, Mich.  
 New Haven, Conn.  
 Wildwood, N. J.  
 Newport News, Va.  
 Durham, N. C.  
 Farmington, N. C.  
 Savannah, Ga.  
 Durham, N. C.  
 Shelby, N. C.  
 Jackson Heights, N. Y.  
 Arlington, Va.  
 Great Neck, L. I., N. Y.  
 New York, N. Y.  
 Lewes, Del.  
 Sunbury, Pa.  
 Richmond, Va.  
 Washington, D. C.  
 Newark, N. J.  
 Orlando, Fla.  
 Waynesville, N. C.  
 Chattanooga, Tenn.  
 Swarthmore, Pa.  
 Salem, Mass.  
 Mount Airy, N. C.  
 Columbus, O.  
 Murfreesboro, Tenn.  
 Penns Grove, N. J.  
 Pensacola, Fla.  
 East Paterson, N. J.  
 Martinsburg, W. Va.  
 Thomasville, N. C.  
 Winston-Salem, N. C.  
 Rego Park, L. I., N. Y.  
 Benson, N. C.  
 Durham, N. C.  
 Annapolis, Md.  
 Fort Wayne, Ind.  
 Raleigh, N. C.  
 Westbrook, Me.  
 Irvington, N. J.  
 Ridgewood, N. J.  
 New York, N. Y.  
 Columbia, S. C.  
 Morganton, N. C.  
 Montezuma, Ga.  
 Bloomfield Hills, Mich.

\*Requirements for graduation completed in Summer School, 1938.

- MacLeod, Duncan Kennedy  
 \*Maier, George, Jr.  
 Manbeck, John Norman  
 Markham, Frank Turner  
 Marshall, Archibald George  
 Mason, Howard Patrick  
 Meldrum, George Boysen  
 Merchant, Robert Eugene  
 \*Meyer, Joseph Wight  
 Miles, Charles N.  
 Miller, Garfield L., Jr.  
 Minor, John Travis  
 \*Montgomery, James Scott  
 Moore, Hervey Studdiford, Jr.  
 Moorhead, Charles Albert  
 Morgan, Clinton Wilkins, Jr.  
 \*Moritz, John Marines  
 Morrissey, John Edward  
 \*Morse, William Albert  
 \*Murfree, Matthias Brickell, Jr.  
 Murray, James Joseph, Jr.  
 \*Myers, Hillman Burnett  
 Nath, Lawrence Haig  
 Neikirk, William Irvin  
 Nichols, Arthur Dewey, Jr.  
 Nunn, Henry Philip  
 Olson, Wallace Bruce  
 \*Parsons, John Robert, Jr.  
 \*Pattillo, Robert Roy  
 Peeler, Clayton Sam  
 Perrell, Francis Arthur  
 Peters, Paul Robert  
 Peters, William Anthony, Jr.  
 Pharo, George Macpherson  
 \*Plaster, William Emory, Jr.  
 Preyer, Alvin Oehm  
 Puckett, Robert Stephens  
 Radtke, Robert August  
 Rague, John Raymond  
 Rand, Robert Collom  
 Rausch, Norman Wesley  
 Ray, George Irving, Jr.  
 Read, Elkins, Jr.  
 Rees, Hal Collins  
 Reid, Roddey, Jr.  
 Reinhart, John Belvin  
 Reisner, William Harry, Jr.  
 Rhodes, William Luther  
 Rosenthal, Harry Ellis  
 Ross, Robert Enright  
 Rumsey, Herman  
 Ruskin, Alvin Richard  
 Rynd, Laurence Noble  
 Samuels, Irving Leonard  
 Schendorf, Hilliard Arthur  
 Scott, Donald Justin  
 Scott, LeRoy Alexander  
 Sellers, John Groaton  
 Senff, Tom Prewitt  
 Buffalo, N. Y.  
 Bridgeton, N. J.  
 Lewistown, Pa.  
 Tiptonville, Tenn.  
 Branford, Conn.  
 Hollywood, Cal.  
 Langhorne, Pa.  
 Wilkinsburg, Pa.  
 East Orange, N. J.  
 Seymour, Conn.  
 Coral Gables, Fla.  
 Batavia, N. Y.  
 White Plains, N. Y.  
 Sea Girt, N. J.  
 Sunbury, Pa.  
 Lombard, Ill.  
 Enka, N. C.  
 Flushing, N. Y.  
 Lakemont, Ga.  
 Murfreesboro, Tenn.  
 Port Washington, N. Y.  
 Gainesville, Fla.  
 Middletown, N. Y.  
 Hagerstown, Md.  
 Abington, Mass.  
 Winston-Salem, N. C.  
 Plainfield, N. J.  
 Murfreesboro, Tenn.  
 Atlanta, Ga.  
 Staunton, Va.  
 Miami, Fla.  
 Lehigh, Pa.  
 Elizabeth City, N. C.  
 Moorestown, N. J.  
 Leesburg, Va.  
 Cleveland Heights, O.  
 Birmingham, Ala.  
 Detroit, Mich.  
 Queen's Village, L. I., N. Y.  
 Park Ridge, Ill.  
 Maplewood, N. J.  
 Atlanta, Ga.  
 West Pittston, Pa.  
 Fayetteville, Tenn.  
 Rock Hill, S. C.  
 Merrill, Wis.  
 Hagerstown, Md.  
 Estill, S. C.  
 Winston-Salem, N. C.  
 Baltimore, Md.  
 San Antonio, Texas  
 New Rochelle, N. Y.  
 Westfield, N. Y.  
 Baltimore, Md.  
 Rahway, N. J.  
 West Palm Beach, Fla.  
 Knapolis, N. C.  
 Norfolk, Va.  
 Mount Sterling, Ky.

\* Requirements for graduation completed in Summer School, 1938.



- Shackelford, Daniel Owen  
 Shackelton, John Henry  
 Shapiro, David Joseph  
 Shepard, Vitol Samuel  
 Shuff, Landon Earle  
 Singletary, William Edward  
 Sink, Henry Harrison  
 Slay, Ronald Joseph  
 Sloan, Harvey F.  
 Smith, Victor K., Jr.  
 \*Sparks, Gilbert Ray  
 Spurgin, Charles Dorsey  
 \*Stack, Warren Carlisle  
 \*Stamaton, Jack C.  
 Stamey, Robert Henry  
 Stankowitch, William Adelbert  
 Steele, Orlando Lester  
 Stephens, Hal Calvin  
 Stewart, Winburn Earl  
 Stovall, Sidney  
 Strickland, James Millard  
 Terry, Emerson Woodworth  
 Thomas, James Bartholow  
 Thompson, Kearns Reid, Jr.  
 \*Thompson, Walter Rowe  
 \*Thurston, Harold Bushman  
 Tipton, Eric Gordon  
 Tracy, William Edward  
 Truesdale, Sidney Louis  
 Turner, Stanley John  
 Van Voorhis, Robert Henry  
 Vaughan, James Robert, Jr.  
 Walker, Richard Cuthbert  
 Wallace, Arthur  
 Wallace, James Matthews  
 Walter, George Clark  
 Ward, Robert Bruce  
 Warth, Henry Kent  
 \*Watson, Edward Louis  
 Weber, John Joseph  
 Weingarten, Bernard  
 Wenzel, Herman Godfrey, Jr.  
 Westerfield, Stanley Woodward  
 Whitaker, Howard, Jr.  
 Wilkinson, Albert Alexander  
 \*Will, Daniel Carr, Jr.  
 Williams, Denny DuBose  
 Williams, Edwin Lesslie, Jr.  
 \*Williams, Pleasant Hardin, Jr.  
 Williams, William Orrin  
 Willis, Noble Sensor  
 \*Winburn, Robert Jones  
 Wood, Melvin Nichols  
 \*Woodard, Marshall Wayne  
 Woody, Arthur Overton  
 \*Wright, Wayne Everette  
 Wyman, Robert Bruce  
 Yearn, Wilfred Buck, Jr.  
 Durham, N. C.  
 Springfield, Pa.  
 New York, N. Y.  
 Palm Beach, Fla.  
 Greenville, N. C.  
 Winston-Salem, N. C.  
 Greensboro, N. C.  
 Greenville, N. C.  
 Bellevue, Pa.  
 Montclair, N. J.  
 West Palm Beach, Fla.  
 Baltimore, Md.  
 Monroe, N. C.  
 Stamford, Conn.  
 Lawndale, N. C.  
 Ridgefield Park, N. J.  
 Cleveland, O.  
 Morristown, Tenn.  
 Savannah, Ga.  
 Virgilina, Va.  
 Rocky Mount, N. C.  
 Montclair, N. J.  
 Frederick, Md.  
 Reidsville, N. C.  
 Midland, N. C.  
 Martinsburg, W. Va.  
 Petersburg, Va.  
 Stockbridge, Mass.  
 Winston-Salem, N. C.  
 Montclair, N. J.  
 Rutherford, N. J.  
 East Aurora, N. Y.  
 Moorestown, N. J.  
 Elizabeth, N. J.  
 Moorestown, N. J.  
 Bronxville, N. Y.  
 Baltimore, Md.  
 Baltimore, Md.  
 Tuckahoe, N. Y.  
 Newark, N. J.  
 Brooklyn, N. Y.  
 Rockville Centre, N. Y.  
 Charlotte, N. C.  
 Windsor, Conn.  
 Durham, N. C.  
 Drexel Hill, Pa.  
 Richmond, Va.  
 Rock Hill, S. C.  
 Ashland, Ky.  
 Southold, N. Y.  
 Wilmington, Del.  
 Midville, Ga.  
 Dalton, Mass.  
 Asheville, N. C.  
 Baltimore, Md.  
 Asheville, N. C.  
 Arlington, Mass.  
 Louisville, Ga.

\* Requirements for graduation completed in Summer School, 1938.

## SPECIAL STUDENTS

Adams, Willis Roscoe	Clarksville, Va.
Berini, Nello Richard	Durham, N. C.
Dalton, Raymond A.	Durham, N. C.
Farthing, William Lee, Jr.	Durham, N. C.
Fogleman, William Harry	Portsmouth, O.
Fukuhara, Nobukazu	Tokyo, Japan
Hibberd, Christy Nelson, Jr.	Durham, N. C.
Hodges, Carroll Broadus	Claremore, Okla.
Klaven, Morris Solomon	Durham, N. C.
Kneipp, John Albert	Washington, D. C.
Mullinax, Buzzie Lee	Durham, N. C.
Persons, Walter Scott	Durham, N. C.
Stephenson, Arthur Louis Greene, Jr.	Aulander, N. C.
Vaughan, William Thomas	Durham, N. C.
Wetmore, Thomas Hugh	Durham, N. C.
Wilson, Byron Gibbs	Tampa, Fla.

## THE WOMAN'S COLLEGE

## FRESHMAN CLASS

Algranti, Rosalie	Durham, N. C.
Allen, Dorothy Louise	Moorestown, N. J.
Ashley, Jane	Ellenton, S. C.
Bachmann, Susan Jane	Wheeling, W. Va.
Baldwin, Anna Kate	Sussex, N. J.
Ballard, Jane Elizabeth	East Orange, N. J.
Bandy, Evelyn Boyer	Old Greenwich, Conn.
Barrett, Sue	New Orleans, La.
Baskin, Alma Dean	Brooklyn, N. Y.
Bates, Susan Elizabeth	Lexington, Va.
Bates, Virginia	Philadelphia, Pa.
Becker, Elizabeth	Lansdowne, Pa.
Bender, Sarah Joan	Akron, O.
Bennett, Cynthia	Richmond, Va.
Benson, Frances Louisa	Winston-Salem, N. C.
Bergen, Mildred Marie	Wilmington, Del.
Bernard, Alice Marilyn	Muncie, Ind.
Bishop, Dorothy Louise	Rutherford, N. J.
Booe, Sarah Ann	Asheville, N. C.
Breithaupt, Edna Mary	Phoenicia, N. Y.
Breth, Eleanor Anne	Chillicothe, O.
Brown, Josephine Camilla	Hempstead, L. I., N. Y.
Bruce, Frances Catherine	Durham, N. C.
Bruzgo, Florence Elizabeth	Summit Hill, Pa.
Burks, June Gentry	Charlotte, N. C.
Cameron, Barbara Jean	Paoli, Pa.
Cantor, Deborah	Patchogue, N. Y.
Carver, Nancy Agnes	Durham, N. C.
Chandler, Delnora Lucille	Alcoa, Tenn.
Chesson, Mary Jane	Durham, N. C.
Chinsky, Eileen	Pennington Gap, Va.
Chivers, Frances Elizabeth	Baldwin, L. I., N. Y.
Clark, Elizabeth Virginia	Stamford, Conn.
Clarke, Genedick Maxwell	Fort Bragg, N. C.
Clarke, Marcia Elizabeth	Jackson, Mich.
Clusman, Mildred Virginia	Baltimore, Md.
Collins, Alice Marshall	Durham, N. C.
Collins, Frances Paige	Jacksonville, Fla.

Collins, Genevieve  
Colyer, Mary Ross  
Coma, Marie Antoinette  
Connar, Virginia Anne  
Cook, Janice Allyn  
Cooney, Martha Ellen  
Corpening, Louise Linton  
Cosler, Barbara Ann  
Cousins, Mary Ernestine  
Cowles, Mary Elizabeth  
Craig, Frances Jane  
Crossan, Marian Springer  
Crum, Frances  
Davenport, Martha Anne  
Davis, Eloise  
Davis, Marion Hilda  
DeCormis, Betty Belle  
DeGarmo, Audrey  
Deshon, Mary Abbie  
DeVries, Elizabeth Waters  
Dodd, Caroline  
Donald, Margaret Caldwell  
Douglass, Zanna Marion  
Downer, Jean Alice  
Dubs, Elizabeth Jean  
Dudley, Marjorie Anne  
Dumestre, Helen Mary  
DuMont, Dorothy DeEtte  
Dworsky, Sara Lee  
Edwards, Frances Eulabell  
Edwards, Mary Jane  
Edwards, Muriel Isabel  
Elliott, Jean  
Emerson, Laura  
Ermilio, Gloria Josephine  
Falls, Isabelle Rae  
Faucette, Naomi Rachel  
Ferris, Louise Mae  
Fischer, Marjorie Jean  
Fishel, Helen Elaine  
Forsberg, Margaret Eugenia  
Foster, Vadis Elizabeth  
Fox, Irene Carolyn  
Francis, Margaret Ellen  
Frank, Mary Edith  
Fuquay, Margaret Louise  
Gaither, Katherine Elizabeth  
Gehres, Barbara Ann  
Gerlach, Mildred Amelia  
Gibbons, Helen Weaver  
Gibson, Janet Walton  
Gift, Janet Eleanor  
Gober, Ann Elizabeth  
Good, Margaret Estelle  
Gottlieb, Helen Myra  
Grant, Jane Elizabeth  
Green, Betty  
Green, Elizabeth Ann  
Green, Patricia Wentworth  
Greene, Marian Ward

Columbus, O.  
Maplewood, N. J.  
Philadelphia, Pa.  
Rutherford, N. J.  
Trenton, N. J.  
Shaker Heights, O.  
Rockingham, N. C.  
E. Cleveland, O.  
Durham, N. C.  
Burlington, Vt.  
Richmond, Va.  
Marshallton, Dei.  
Durham, N. C.  
Durham, N. C.  
Roanoke, Va.  
Arlington, Va.  
Accomac, Va.  
Lakewood, O.  
Mobile, Ala.  
Sandy Spring, Md.  
Miami, Fla.  
Birmingham, Ala.  
Chapel Hill, N. C.  
Detroit, Mich.  
Durham, N. C.  
Ardmore, Pa.  
Avondale Estates, Ga.  
New York, N. Y.  
Durham, N. C.  
Durham, N. C.  
Durham, N. C.  
Valley Stream, L. I., N. Y.  
Kenosha, Wis.  
Danville, Va.  
Newark, N. J.  
Lorain, O.  
Durham, N. C.  
South Norwalk, Conn.  
York, Pa.  
York, Pa.  
Pittsburgh, Pa.  
Germantown, Tenn.  
East Mariches, N. Y.  
Jackson, Ky.  
Trumansburg, N. Y.  
Durham, N. C.  
Statesville, N. C.  
Washington, D. C.  
Spring Lake, N. J.  
Hamlet, N. C.  
Oxford, Pa.  
Altoona, Pa.  
Marietta, Ga.  
Shaker Heights, O.  
Paulsboro, N. J.  
Lakewood, O.  
Coral Gables, Fla.  
Big Stone Gap, Va.  
Hillsboro, N. C.  
Schenectady, N. Y.

Haile, Emma Virginia  
 Hall, Mary Louise  
 Hall, Susan Anne  
 Hank, Virginia May  
 Hardin, Helen Kerenhappuch  
 Harding, Alice Marie  
 Harmon, Emma Norris  
 Harpster, Katherine Rose  
 Hayes, Willa Jean  
 Hess, Ruth  
 Hewitt, Isabella McMorn  
 Hodgson, Marjorie Cotton  
 Holloway, Mary Ellen  
 Hough, Elizabeth Whiteman  
 Hundley, Margaret Camden  
 Huntley, Jane Gordon  
 Huston, Virginia Harmony  
 Jacobsen, Pamela Nancy  
 Jarrell, Gertrude Mayer  
 Jasberg, Gloria  
 Johnson, Martha Noel  
 Jolley, Josephine Ruth  
 Jones, Betty Ruth  
 Jordan, Janet  
 Kamerer, Miriam Elizabeth  
 Kaye, Arline  
 Kearney, Vera Jean  
 Keeler, Phoebe Forrestine  
 Kehr, Elizabeth Ann  
 Kessel, Katherine  
 Kirk, Margie Lee  
 Kline, Martha Jane  
 Kling, Catherine Belle  
 Knight, Frances Bernice  
 Knox, Suzanne Margaret  
 Kreider, Charlotte Eleanor  
 Lambert, Marcia  
 Lassen, Marion Powers  
 Lavinder, Beverly Routh  
 Leggett, Edna Earle  
 Leonard, Elinor Jane  
 Leonard, May Vestal  
 Leonard, Nancy Curtis  
 Lineberger, Nancy Jane  
 Livingston, Nonie Crum  
 McCall, Jean Browne  
 McCracken, Margaret Holt  
 McCreary, Jeanne Evelyn  
 McCreedy, Doris Ann  
 MacDonald, Mary  
 McKee, Betty Jane  
 MacWilliams, Anne Louise  
 Marshall, Barbara Thorp  
 Marshall, Margaret Lee  
 Marshall, Miriam Ethel  
 Mason, Margaret Varina  
 Massey, Wilmoth O'Neal  
 Maturin, Margaret Lula  
 Maxwell, Ellen Virginia  
 Mellon, Beatrice

Towson, Md.  
 Raleigh, N. C.  
 Montclair, N. J.  
 Paducah, Ky.  
 Evanston, Ill.  
 Brockway, Pa.  
 Leland, N. C.  
 Lakewood, O.  
 Greensboro, N. C.  
 Fairmont, W. Va.  
 Greensboro, N. C.  
 Akron, O.  
 Dover, Del.  
 Williamsport, Pa.  
 Durham, N. C.  
 Biltmore, N. C.  
 New York, N. Y.  
 Mahwah, N. J.  
 Little Rock, Ark.  
 Upper Montclair, N. J.  
 Atlanta, Ga.  
 Mexico, Mo.  
 Washington, D. C.  
 La Jolla, Calif.  
 St. Petersburg, Fla.  
 Miami Beach, Fla.  
 Snow Hill, N. C.  
 West End, N. C.  
 Toledo, O.  
 Charleston, W. Va.  
 Durham, N. C.  
 Zanesville, O.  
 Grindstone, Pa.  
 Belton, S. C.  
 Detroit, Mich.  
 Elizabethtown, Pa.  
 Hattiesburg, Miss.  
 Flourtown Pa.  
 Durham, N. C.  
 Chapel Hill, N. C.  
 Winona, Minn.  
 Lexington, N. C.  
 Salisbury, N. C.  
 Shelby, N. C.  
 Orangeburg, S. C.  
 Bath, Me.  
 Durham, N. C.  
 Valley Stream, N. Y.  
 Hawthorne, N. J.  
 Bennettsville, S. C.  
 Wilkinsburg, Pa.  
 Jacksonville, Fla.  
 Milford, Del.  
 Vinton, Va.  
 Asbury Park, N. J.  
 Durham, N. C.  
 Ansted, W. Va.  
 Morristown, N. J.  
 Comus, Md.  
 Durham, N. C.

Mellor, Margaret Bancroft  
 Mitchell, Maurine  
 Moeller, Pauline Clara  
 Montgomery, Frances Kathryn  
 Murdock, Kathryn Abbot  
 Myers, Anna Jane  
 Neagle, Sara Jane  
 Nebel, Wilma Ruth  
 Nobles, Jane Cornelia  
 Norris, Kathleen  
 Norwood, Marion Louise  
 Oak, Dorothy Marie  
 O'Brien, Lucie Stokes  
 O'Rourke, Ann Elisabeth  
 Osborne, Sally Roberts  
 Ottinger, Addie  
 Owens, Fannie Arnold  
 Parker, Sarah Constance  
 Partenfelder, Betty Rose  
 Passmore, Virginia Christine  
 Paynter, Sybill Jane  
 Peach, Elizabeth Wellford  
 Peluso, Mary Elsie  
 Perkins, Hallee  
 Pessar, Dorothy Ethel  
 Pierson, Mary Emmaline  
 Pixton, Ruby Vera  
 Plansoen, Wilma Cornelia  
 Plyler, Helen Davidson  
 Powell, Eleanor Sue  
 Quick, Betty Louise  
 Quinn, Margaret Howard  
 Rarig, Barbara Jane  
 Raysor, Mary Francis  
 Read, Patricia Wickliffe  
 Reed, Charlotte Elizabeth  
 Rich, Elizabeth Anne  
 Rick, Florence Isabel  
 Robinson, Alice Merritt  
 Rogers, Russell Anne  
 Rothermel, Helen Louise  
 Rowe, Dorothy Elizabeth  
 Ruckel, Ramonde  
 Rule, Mary Lily  
 Salzman, Doris Elizabeth  
 Schmidt, Audrey Deane  
 Schofield, Victoria Jane  
 Schureman, Alice Elizabeth  
 Seafeld, Marilyn Lenore  
 Searight, Louise Boswell  
 Selden, Norma  
 Sellars, Josephine Virginia  
 Seymour, Ruth  
 Seymour, Virginia Mendolene  
 Shaw, Beth Mae  
 Sherrill, Connor Marie  
 Silva, Miriam  
 Small, Carolyn Lee  
 Smith, Betty Jane  
 Smith, Eleanor Sue

West Chester, Pa.  
 Marfa, Texas  
 St. Petersburg, Fla.  
 Stratford, Conn.  
 Hempstead, N. Y.  
 Toronto, O.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Pensacola, Fla.  
 Washington, D. C.  
 Durham, N. C.  
 Bound Brook, N. J.  
 Durham, N. C.  
 Dundalk, Md.  
 Jacksonville, Fla.  
 Bridgeton, N. J.  
 Newnan, Ga.  
 Henderson, N. C.  
 Greensboro, N. C.  
 Nottingham, Pa.  
 Salisbury, Md.  
 Mitchellville, Md.  
 Deal, N. J.  
 Binghamton, N. Y.  
 New York, N. Y.  
 Charleston, W. Va.  
 New London, Conn.  
 Belleville, N. J.  
 Greensboro, N. C.  
 High Point, N. C.  
 Watertown, N. Y.  
 Allentown, Pa.  
 Minneapolis, Minn.  
 Greenville, S. C.  
 Miami Beach, Fla.  
 Wilmington, Del.  
 Stamford, Conn.  
 Pittsburgh, Pa.  
 New York, N. Y.  
 Richmond, Va.  
 Minersville, Pa.  
 Newark, N. J.  
 Valpariso, Fla.  
 Goshen, Ky.  
 Cleveland Heights, O.  
 Mountain Lakes, N. J.  
 Akron, O.  
 New Brunswick, N. J.  
 Ironton, Minn.  
 Fort Bragg, N. C.  
 Miami, Fla.  
 Mebane, N. C.  
 Plainville, Conn.  
 Coral Gables, Fla.  
 Miami, Fla.  
 Charlotte, N. C.  
 Newport, Ky.  
 Elizabeth City, N. C.  
 Avon Lake Village, O.  
 State College, Miss.

- Smith, Frances Bivins  
 Smith, Jane Cothran  
 Smith, Linette Agnella  
 Smith, Margaret Shirley  
 Smith, Mary Elizabeth  
 Snyder, Hilda Rose  
 Spearman, Sarah Paul  
 Steffen, Helene Rietow  
 Steininger, Virginia Ann  
 Stivers, Dorothy Jean  
 Stood, Rosemary  
 Strone, Faye Elizabeth  
 Stroupe, Doris Evelyn  
 Stryker, Elizabeth Lucy  
 Swearingen, Jane Louise  
 Swett, Eleanor  
 Swindell, Mary Moore  
 Tabor, Margarette  
 Taylor, Jeanne Parmelee  
 Thacker, Page Virginia  
 Tinsley, Margaret Emma  
 Towe, Sara Crawford  
 Tucker, Elizabeth Duke  
 Turner, Laura Bennett  
 Tuscano, Mary Elizabeth  
 Upchurch, Edith Katrine  
 Upp, Marilyn Betty  
 van Deirse, Hilda Fay  
 Van Middlesworth, Mary  
 Van Orman, Mary Phyllis  
 Van Vynckt, Bertha Mae  
 Vaughan, Emily Jeffress  
 Verrone, Rose Marie  
 Vickers, Geraldine Farrar  
 Wackerman, Betty  
 Walls, Clara Margaret  
 Wannamaker, Anne Scovill  
 Warner, Eleanor Taylor  
 Warren, Shirley Evelyn  
 Washburn, Dorothy Mae  
 Waters, Sara Jane  
 Watson, Virginia Feters  
 Weaver, Esther Charlotte  
 Webb, Lucille Tawes  
 Webster, Rosamond  
 Welch, Grace Woodward  
 West, Mary Loraine  
 Whisnant, Lola Spencer  
 Whitney, Mary Louise  
 Wilkinson, Dorothy Watkins  
 Williams, Barbara Jeanne  
 Williams, Carol Virginia  
 Williams, Gladys Walter  
 Wills, Virginia Waln  
 Wilson, Betsy Jennings  
 Wilson, Dorothy Elizabeth  
 Wilson, Patricia Downs  
 Wolfe, Ann Elizabeth  
 Wood, Dorothy Mary  
 Wooster, Irma Jean  
 Farmville, N. C.  
 Atlanta, Ga.  
 South River, N. J.  
 Birmingham, Mich.  
 Woodbridge, N. J.  
 Greeneville, Tenn.  
 Washington, D. C.  
 Sheboygan, Wis.  
 Reading, Pa.  
 Maplewood, N. J.  
 Fall River, Mass.  
 Perth Amboy, N. J.  
 High Point, N. C.  
 Shaker Heights, O.  
 Chicago, Ill.  
 Middlebury, Vt.  
 Durham, N. C.  
 Boissevain, Va.  
 Chester, Pa.  
 Disputanta, Va.  
 Miami, Fla.  
 Roanoke Rapids, N. C.  
 Little Rock, Ark.  
 Miami, Fla.  
 Milford, Pa.  
 Durham, N. C.  
 River Forest, Ill.  
 Orlando, Fla.  
 Andover, N. J.  
 Rutherford, N. J.  
 University, N. C.  
 Durham, N. C.  
 Newark, N. J.  
 Durham, N. C.  
 Durham, N. C.  
 Georgetown, Del.  
 Durham, N. C.  
 Berwyn, Pa.  
 Port Washington, N. Y.  
 Niles, Mich.  
 Johnstown, Pa.  
 Birmingham, Mich.  
 Rye, N. Y.  
 Crisfield, Md.  
 Mason City, Iowa  
 Valley Stream, N. Y.  
 Fairmont, W. Va.  
 Charlotte, N. C.  
 Washington, D. C.  
 Carson, Va.  
 Larchmont, N. Y.  
 Waterbury, Conn.  
 Washington, D. C.  
 Mt. Holly, N. J.  
 Winnetka, Ill.  
 Morristown, N. J.  
 Lansdowne, Pa.  
 Orangeburg, S. C.  
 Yonkers, N. Y.  
 Sterling, Ill.



## SOPHOMORE CLASS

Abernethy, Mary Lura	Newton, N. C.
Adams, Mary Jane	Richmond, Va.
Aleinikoff, Mimi	Brooklyn, N. Y.
Alexander, Dorothy Ruth	Atlanta, Ga.
Alexander, Katherine Latham	Durham, N. C.
Aylward, Dorothy Adelaide	Daytona Beach, Fla.
Badgley, Audrey	Brooklyn, N. Y.
Baer, Marion Eleanor	Bedford Hills, N. Y.
Bagley, Mary Lee	Rochester, N. Y.
Bailey, Jean Elizabeth	Raleigh, N. C.
Bailey, Josephine Gardner	Thomasville, Ga.
Ballard, Margaret Elizabeth	Willis Wharf, Va.
Barnes, Margaret Elizabeth	Philadelphia, Pa.
Becker, Dora Elizabeth	Washington, D. C.
Bezenberger, Margaret	Shaker Heights, O.
Binder, Kathryn Louise	Leonia, N. J.
Blackburn, Jane	West Falls Church, Va.
Blackmore, Patricia	Birmingham, Mich.
Blessman, Dorothy Irene	Akron, O.
Boughton, Jean	East Orange, N. J.
Brandt, Claire	Norfolk, Va.
Braynard, Margaret Isabel	Glen Cove, N. Y.
Brundage, Elizabeth Travers	Upland, Pa.
Buckle, Martha Louise	Binghampton, N. Y.
Buschow, Mary Ellen	Mena, Ark.
Campbell, Edna Preising	Drexel Hill, Pa.
Campbell, Virginia Alice	Habana, Cuba
Cann, Joy	Greensboro, N. C.
Case, Eleanor Carlotta	Fort Myers, Fla.
Chamberlain, Hope	Syracuse, N. Y.
Chase, Sarah	Miami Beach, Fla.
Clinkscales, Mary Celeste	Miami, Fla.
Coburn, Geraldine	Raleigh, N. C.
Coburn, Helen Kerr	Washington, D. C.
Cole, Miriam Louise	Middletown, O.
Conger, Dorothea Parsons	Staunton, Va.
Conine, Ruth Ballard	Stratford, Conn.
Conners, Carol Ann	Shaker Heights, O.
Cooke, Dorothy Vinyard	Millville, N. J.
Cordes, Shirley Louise	Johnstown, Pa.
Cornish, Susan Gladys	Gillette, N. J.
Courtney, Margaret Duley	Winston-Salem, N. C.
Courtney, Mary Ivey	Charlotte, N. C.
Cozart, Anne Fleming	Durham, N. C.
Craig, Nancy Jane	Crafton, Pa.
Crawford, Frances Lorraine	Charlotte, N. C.
Crawford, Mary Elizabeth	Mineral Point, Wis.
Creider, Elizabeth May	Scranton, Pa.
Crump, Charlotte Amelia	Wallingford, Conn.
Curry, Elise Duncan	Bethesda, Md.
Dabney, Sarah Comer	Birmingham, Ala.
Dalton, Maye Elizabeth	Durham, N. C.
Davis, Marjorie Elizabeth	Durham, N. C.
Dawe, Mary Louise	Richmond, Va.
Denaple, Nancy Jeane	Manhasset, L. I., N. Y.
Denney, Sherleen Marie	New Rochelle, N. Y.
Dismer, Helen Cordelia	Silver Spring, Md.
Doddrill, Mabel Geraldine	Webster Springs, W. Va.

- Donehoo, Lois Jean  
 Driscoll, Helen Barbara  
 Eisen, Edythe Lilyan  
 Entrekin, Virginia  
 Epes, Marjorie Louise  
 Epperson, Joan Marie  
 Evans, Mary Ann  
 Fagan, Barbara Campbell  
 Ferguson, Pollyanne  
 Fleet, Lillian  
 Flippen, Gertrude Lee  
 Flowers, Flewellyn deGraffenreid  
 Forlines, Martha Lane  
 Forsythe, Rosemary  
 Free, Sally Grace  
 Fuller, Ardith Dodd  
 Gantt, Kate Claywell  
 Gardiner, Fredrica Elizabeth  
 Gary, Ethel Almira  
 Gibson, Frances  
 Gillespie, Alice Irene  
 Gooch, Sara Bruce  
 Goodwin, Noma Lee  
 Grace, Ann  
 Gray, Priscilla  
 Gregory, Anna Elizabeth  
 Griffin, Kathleen  
 Griffith, Mildred Wellborn  
 Griffiths, Mary Elizabeth  
 Gross, Jean Talbot  
 Grunewald, Christine Dora  
 Hagemann, Martha Jane  
 Hale, Mary Elizabeth  
 Hall, Alice Virginia  
 Hall, Virginia Ann  
 Hanby, Mildred Scott  
 Hansen, Shirley Tweed  
 Harris, Kate Lee  
 Harward, Lillian Mangum  
 Harwood, Alice  
 Haynes, Hazel Sterrett  
 Hersey, Ann Randolph  
 Hill, Lillian Lee  
 Houston, Jane Hunt  
 Howorth, Loretta Alice  
 Huckle, Elizabeth Gillis  
 Hughes, Caroline Irene  
 Hull, Edyth Maud  
 Izlar, Camille Willingham  
 Jacobi, Wilma Jane  
 Johnston, Bertha Emmalee  
 Kennedy, Virginia Elizabeth  
 Kenner, Frances Annette  
 King, Lucile Curtis  
 Kirkland, Dorothy Faucette  
 Kishpaugh, Marjorie Byrd  
 Kueffner, Rose Goldsmith  
 Lambdin, Jean Carback  
 LaMont, Marjorie  
 St. Petersburg, Fla.  
 Upper Montclair, N. J.  
 Brooklyn, N. Y.  
 Belleville, N. J.  
 Kenmore, N. Y.  
 Durham, N. C.  
 Greensboro, N. C.  
 New York, N. Y.  
 Loveland, Colo.  
 Winter Haven, Fla.  
 Richmond, Va.  
 Thomasville, Ga.  
 Durham, N. C.  
 Park Ridge, Ill.  
 Shaker Heights, O.  
 New York, N. Y.  
 Durham, N. C.  
 Jacksonville, Fla.  
 Westfield, Mass.  
 Concord, N. C.  
 Hartsville, S. C.  
 Henderson, N. C.  
 Durham, N. C.  
 Easton, Md.  
 Oyster Bay, N. Y.  
 Durham, N. C.  
 Atlanta, Ga.  
 Lebanon, Va.  
 Great Neck, N. Y.  
 Elkins, W. Va.  
 Washington, D. C.  
 Chillicothe, O.  
 Baltimore, Md.  
 Erie, Pa.  
 Great Neck, N. Y.  
 Wilmington, Del.  
 Hendersonville, N. C.  
 Durham, N. C.  
 Raleigh, N. C.  
 Park Ridge, Ill.  
 Durham, N. C.  
 Cleveland, O.  
 Bound Brook, N. J.  
 Warren, Pa.  
 Wilkes-Barre, Pa.  
 Rock Hill, S. C.  
 Jacksonville, Fla.  
 Cleveland Heights, O.  
 Winston-Salem, N. C.  
 Washington, D. C.  
 Jacksonville, Fla.  
 Durham, N. C.  
 New Rochelle, N. Y.  
 Grosse Pointe Farms, Mich.  
 Durham, N. C.  
 Hershey, Pa.  
 Durham, N. C.  
 St. Petersburg, Fla.  
 Canton, O.

Lawrence, Helen Woodruff  
 Leatherwood, Elizabeth Maye  
 Lee, Elsie Lois  
 Lentz, Jacqueline  
 Link, Henry Etta  
 Linton, Jeanne Phyllis  
 Loughlin, Sylvia  
 Lynch, Katherine Harless  
 Lyon, Estelle Felts  
 McCanless, Sarah Napoleon  
 McCann, Adriana  
 McKenzie, Eleanor  
 McMillan, Grace Louise  
 MacNutt, Jean Mary  
 Mack, Elizabeth Amanda  
 Maden, Ruby Kathryn  
 Mayhew, Adelaide  
 Mitchell, Cornelia  
 Morehead, Mildred Ada  
 Morrison, Beatrice Mary  
 Murray, Elizabeth Lee  
 Nabers, Dora Frances  
 Noling, Flora Louise  
 Oehm, Jean Florence  
 Omar, Nancy Jean  
 Osborne, Elizabeth Ann  
 Owen, Emily Hillyer  
 Owens, Jean Lusyl  
 Padmore, Phyllis  
 Pentz, Helen Eloise  
 Perkins, Mildred Harriet  
 Pethick, Sylvia Faye  
 Pierce, Abigail  
 Porterfield, Bettilu  
 Pressing, Frances Irene  
 Prox, Dorothy Cecile  
 Quillin, Evelyn May  
 Rateau, Carolyn Ann  
 Reeves, Anne Heron  
 Richards, Anne  
 Rodenbough, Kathryn Louise  
 Rogers, Rae Elizabeth  
 Rorabaugh, Helen Mary  
 Rudolph, Louise Nadine  
 Saville, Dorothy  
 Sawyers, Mary Jean  
 Scarlett, Dora Page  
 Schrup, Ellen Lester  
 Shaw, Minnie Lee  
 Sherman, Mary Irwin  
 Sherrill, Ellen Lewis  
 Shields, Janet Louise  
 Shivers, Mary Ann  
 Shoecraft, Harriet  
 Shryock, Elizabeth Hall  
 Simpson, Margaret Lynch  
 Sink, Dorothy Estelle  
 Slingsby, Helen Audrey  
 Smith, Elizabeth Marie  
 Smith, Shirley Louise

Sussex, N. J.  
 Bryson City, N. C.  
 Durham, N. C.  
 Ellerbe, N. C.  
 Lexington, N. C.  
 Philadelphia, Pa.  
 Henderson, N. C.  
 Evanston, Ill.  
 Durham, N. C.  
 South Boston, Va.  
 Hopewell, Va.  
 Gibson, N. C.  
 Durham, N. C.  
 Ridgefield Park, N. J.  
 Durham, N. C.  
 Delaware City, Del.  
 Excelsior, Minn.  
 Irvine, Ky.  
 Pelham Manor, N. Y.  
 Pittsburgh, Pa.  
 Selbyville, Del.  
 Durham, N. C.  
 South Orange, N. J.  
 Longmeadow, Mass.  
 Bluefield, Va.  
 Jacksonville, Fla.  
 Anniston, Ala.  
 Petersburg, Va.  
 West Chester, Pa.  
 Winchester, Mass.  
 Oakmont, Pa.  
 Southern Pines, N. C.  
 Oklahoma City, Okla.  
 Canton, O.  
 Norwalk, O.  
 Terre Haute, Ind.  
 Kingsport, Tenn.  
 Ridgewood, N. J.  
 Washington, D. C.  
 West Hartford, Conn.  
 Easton, Pa.  
 Washington, D. C.  
 Philadelphia, Pa.  
 New York, N. Y.  
 Wilmington, Del.  
 Pemberton, W. Va.  
 Durham, N. C.  
 Mt. Plymouth, Fla.  
 Durham, N. C.  
 Goldsboro, N. C.  
 Concord, N. C.  
 Montclair, N. J.  
 Woodbury, N. J.  
 Ann Arbor, Mich.  
 Winchester, Va.  
 Winston-Salem, N. C.  
 Winston-Salem, N. C.  
 Deep River, Conn.  
 South River, N. J.  
 Arlington, Va.

Snipes, Elizabeth Blanks  
 Snyder, Eugenia Josephine  
 Sopp, Barbara Perine  
 Southgate, Eleanor Fuller  
 Southwick, Bertha Eunice  
 Spruill, Margaret  
 Starnes, Margaret Evelyn  
 Stiles, Caroline Brown  
 Stockdale, Ruth Mary  
 Stone, Janet  
 Stubbs, Sara Lily  
 Swaren, Dixie Anna Mary  
 Sweet, Virginia Lorraine  
 Sykes, Anne  
 Taylor, Amelia Chilton  
 Thomas, Frances Cherry  
 Thompson, Kitty Lou  
 Tritle, Doris Hotchkiss  
 Umstead, Carolyn Manning  
 Van Hagan, Louise Humphrey  
 Wagner, Carol June  
 Wagner, Margaret Elizabeth  
 Wall, Martha Evelyn  
 Wallin, Geraldine Tinsley  
 Walter, Louise Chillson  
 Walters, Helen Julia  
 Ware, Betty Lee  
 Weidmann, Kathryn Olive  
 Weintz, Edith Mary  
 Welfare, Anne Bagby  
 Weston, Sylvia  
 Weyman, Jean Marie  
 Whyte, Mary Robertson  
 Widmer, Frances Elizabeth  
 Willis, Helen Elizabeth  
 Willman, Marian Elizabeth  
 Wire, Margaret Jane  
 Wolcott, Dorothy Davies  
 Woodcock, Athalinda Adella  
 Wray, Virginia Proffit  
 Wright, Marjorie Helen  
 Young, Martha Anne

Durham, N. C.  
 Patchogue, N. Y.  
 Red Bank, N. J.  
 Durham, N. C.  
 Towson, Md.  
 Lexington, N. C.  
 Morganton, N. C.  
 Washington, D. C.  
 Pittsburgh, Pa.  
 Durham, N. C.  
 Hamlet, N. C.  
 Brookeville, Md.  
 Schenectady, N. Y.  
 Queens Village, N. Y.  
 Morristown, Tenn.  
 Durham, N. C.  
 Marion, S. C.  
 Erie, Pa.  
 Durham, N. C.  
 Buffalo, N. Y.  
 Belleville, Ill.  
 Flushing, N. Y.  
 Toledo, O.  
 Wilmington, Del.  
 Philadelphia, Pa.  
 Mount Holly, N. J.  
 Asheville, N. C.  
 Belleville, Ill.  
 Austinville, Va.  
 Chapel Hill, N. C.  
 Hopewell, Va.  
 Middletown, O.  
 Pittsburgh, Pa.  
 Aulander, N. C.  
 Farmville, N. C.  
 Belleville, Ill.  
 Mount Holly, N. J.  
 Riverton, N. J.  
 Morristown, N. J.  
 Norton, Va.  
 Asheville, N. C.  
 Durham, N. C.

#### JUNIOR CLASS

Acer, Virginia Katharine  
 Akers, Nancy Anderson  
 Andrews, Sarah McLaurin  
 Armstrong, Helen Hamilton  
 Arnett, Evelyn Grace  
 Asbury, Kathleen Mary  
 Auser, Ruth Dorothy  
 Averill, Mary Elizabeth  
 Babcock, Farrar Jeanne  
 Bail, Jane  
 Barnes, Julia Barbara  
 Benson, Mary Idelia  
 Blount, Maryanne  
 Boger, Freda Dotger  
 Bolick, Mamie Evelyn

Kenmore, N. Y.  
 Charlotte, N. C.  
 Durham, N. C.  
 Macon, Ga.  
 Danville, Va.  
 Charlotte, N. C.  
 Mountain Lakes, N. J.  
 Raleigh, N. C.  
 Oklahoma City, Okla.  
 Fort Myers, Fla.  
 Lillington, N. C.  
 Winston-Salem, N. C.  
 Pensacola, Fla.  
 Philadelphia, Pa.  
 Conover, N. C.

Borland, Frances  
 Bowen, Elizabeth Jane  
 Boyd, Annajane  
 Boyle, Gene  
 Brewer, Rosanna Jane  
 Brice, Margaret Rilza  
 Brown, Jean Louise  
 Brown, Nancy Gordon  
 Campbell, Virginia Rose  
 Carver, Elizabeth  
 Causey, Nancy Scott  
 Chambers, Wave Maxine  
 Clark, Mary Ellen  
 Clements, Lillie Duke  
 Coble, Mary Fern  
 Colsh, Doris Hadley  
 Conrad, Audrey Elizabeth  
 Conrad, Elizabeth  
 Cooley, Erma Leone  
 Cooper, Margaret Juletta  
 Cox, Florence Steadman  
 Dameron, Isa Sills  
 Daugherty, Eloise Maxine  
 Davis, Alice Gwyn  
 Devendorf, Helen Carver  
 Dodge, Mary Stacy  
 Douglass, Betty Randle  
 Evans, Alona Elizabeth  
 Exley, Frances Annette  
 Eyerly, Susanne Maria  
 Gaines, Barbara Jeanne  
 Gambill, Helen  
 Gambke, Dolores Barbara  
 Gee, Claribel Nance  
 Gerdine, Mary Ethel  
 Gerow, Jeanne Elizabeth  
 Glass, Ann King  
 Glenn, Martha Anne  
 Glenn, Peggy Elizabeth  
 Goddard, Cornelia Margaret  
 Goddard, Frances Mae  
 Gracely, Louise  
 Gregg, Lucie Lee  
 Gulley, Janet  
 Gwyn, Anne Russell  
 Haas, Janet Elaine  
 Harper, Marie Norene  
 Harrington, Amy Riser  
 Hartman, Doris Katherine  
 Hedrick, Willa Frances  
 Henry, Barbara Anne  
 Hodges, Virginia Nelson  
 Hoover, Carol Faith  
 Hopper, Myrtle Eleanor  
 Hubbard, Thelma  
 Hyde, Lorraine Olive  
 Johnson, Jeanette Sidney  
 Johnson, Marion Duke  
 Jones, Maggie Sarah  
 Joyner, Edna McDonald

Durham, N. C.  
 Buffalo, N. Y.  
 Philadelphia, Pa.  
 Sumter, S. C.  
 Shaker Heights, O.  
 Vidalia, Ga.  
 Charlotte, N. C.  
 Amesbury, Mass.  
 Harrisburg, Pa.  
 Bahama, N. C.  
 Greensboro, N. C.  
 Okmulgee, Okla.  
 Salisbury, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Maplewood, N. J.  
 Hollis, N. Y.  
 Washington, D. C.  
 Frenchtown, N. J.  
 Raleigh, N. C.  
 Mount Olive, N. C.  
 Goldsboro, N. C.  
 Cumberland, Md.  
 Shelby, N. C.  
 Asheville, N. C.  
 Chester, Va.  
 Stanton, Tenn.  
 Durham, N. C.  
 Savannah, Ga.  
 Hagerstown, Md.  
 Lakewood, O.  
 Chattanooga, Tenn.  
 Englewood, N. J.  
 Greenwood, S. C.  
 Nashville, Tenn.  
 Liberty, N. Y.  
 Paris, Ky.  
 Chicago, Ill.  
 Flushing, L. I., N. Y.  
 Stratford, Conn.  
 Upper Nyack, N. Y.  
 Marion, O.  
 El Paso, Texas  
 Little Rock, Ark.  
 Reidsville, N. C.  
 Toledo, O.  
 Habana, Cuba  
 Monroe, N. C.  
 Fort Monroe, Va.  
 Salisbury, N. C.  
 Atlanta, Ga.  
 Charleston, W. Va.  
 Durham, N. C.  
 Purchase, N. Y.  
 Belmont, N. C.  
 Interlaken, N. J.  
 Shreveport, La.  
 Durham, N. C.  
 Townsend, Va.  
 Manatee, Fla.

- Kelley, Maude Margaret  
 Keppel, Ruth Gwaltney  
 King, Ann Lamb  
 King, Dorothy Rae  
 Knight, Helen Louise  
 Kramer, Betty Ellen  
 Krummel, Marjorie Anne  
 Laird, Martha  
 Lambdin, Dorothy Ellen  
 Lassiter, Mary Dearborn  
 Lauffer, Beatrice  
 Lavington, Adele Frances  
 Lee, Mary Nell  
 Lee, Yorke Houston  
 Livermore, Anne Louise  
 Long, Dorothy Daniel  
 Long, Winifred  
 Lunsford, Noni Jordan  
 Lutz, Marjorie Elizabeth  
 Lytzen, Geraldine  
 McCreery, Marjorie Graham  
 McFadyen, Betty Cannon  
 Mailler, Barbara  
 Mapes, Elizabeth Blake  
 Mason, Virginia Baird  
 Matthews, Doris Adelaide  
 May, Stella Josephine  
 Medley, Doris  
 Merkel, Jean  
 Metz, Jean Lois  
 Miller, Leslie Viola  
 Mitchell, Florence Ballantyne  
 Montague, Margaret Emily  
 Mortimer, Elinor Agnes  
 Mowry, Betty Jane  
 Murphy, Jeanne Dorothea  
 Nachamson, Eva  
 Nelson, Frances Mae  
 Neushul, Maxine Marie  
 Newlin, Charlotte Case  
 Ondek, Olga Othelia  
 Paradies, Evelyn Gloria  
 Pardo, Leonor Elizabeth  
 Parrott, Leone Hines  
 Peak, Ruth McDanell  
 Perkins, Martha Shannon  
 Pierce, Martha Elizabeth  
 Plyler, Grace  
 Ramsay, Mary Lee  
 Ramsay, Ruth Emily  
 Rankin, Minnie McCorkle  
 Raper, Nancy Louise  
 Raup, Margaret Anne  
 Rauschenberg, Ann Pope  
 Ray, Prudence Ann  
 Ricks, Mary Lela  
 Rogers, Evelyn Still  
 Rohrer, Helen Louise  
 Ryan, Laurette Alice  
 Schiffer, Eileen Anna  
 Westfield, N. J.  
 Richmond, Va.  
 Charleston, W. Va.  
 Marion, O.  
 Durham, N. C.  
 Great Neck, N. Y.  
 Durham, N. C.  
 Jonesboro, Ark.  
 St. Petersburg, Fla.  
 Jackson Heights, N. Y.  
 Oil City, Pa.  
 Brooklyn, N. Y.  
 Maryville, Tenn.  
 Monroe, N. C.  
 Woodbury, N. J.  
 Newton, N. C.  
 Catawba, N. C.  
 Durham, N. C.  
 Shelby, N. C.  
 Washington, D. C.  
 Pittsburgh, Pa.  
 Washington, D. C.  
 Jersey City, N. J.  
 Grand Rapids, Mich.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Bethesda, Md.  
 Revelstoke, B. C., Canada  
 Jersey City, N. J.  
 Augusta, Ga.  
 Irvine, Ky.  
 Durham, N. C.  
 New Rochelle, N. Y.  
 Largo, Fla.  
 Upper Darby, Pa.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Winnetka, Ill.  
 Daytona Beach, Fla.  
 Pittsburgh, Pa.  
 Atlanta, Ga.  
 Habana, Cuba  
 Kinston, N. C.  
 Lexington, Ky.  
 Louisville, Ky.  
 Indiana, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Concord, N. C.  
 Lexington, N. C.  
 Richmond, Va.  
 Atlanta, Ga.  
 Buffalo, N. Y.  
 Whitakers, N. C.  
 Richmond, Va.  
 Hagerstown, Md.  
 Rumson, N. J.  
 New York, N. Y.



Scott, Sara Elizabeth  
 Scudder, Harriet Ellen  
 Seawell, Anne Lee  
 Secrest, Lillian Asbury  
 Sherrill, Mary Martin  
 Simmons, Jessie Steele  
 Slaughter, Anne Walker  
 Smith, Marjorie Frances  
 Smitheal, Burney  
 Sommers, Suzanne  
 Spence, Mary Virginia  
 Sprinkle, Elizabeth Alliene  
 Sundholm, Alma Edwina  
 Sutton, Thressa Dale  
 Thomas, Hope Arishia  
 Thompson, Diana  
 Tilley, Estelle Miriam  
 Toppin, Bertha Emma  
 Tucker, Helen Anne  
 Van Sciver, Evelyn  
 Ward, Margaret  
 Ware, Kathryn Byrne  
 Warner, Polly Russell  
 Wertz, Doris Elise  
 West, Catherine  
 Whisnant, Helen  
 White, Mildred Shreve  
 White, Sallie Falkener  
 Williams, Margaret Walker  
 Wischmeyer, Margaret  
 Womble, Edith  
 Worsham, Margaret Louise  
 Yon, Betty  
 Young, Jessamine Wallace

Wellesley Hills, Mass.  
 Hyannis, Mass.  
 Winder, Ga.  
 Monroe, N. C.  
 Durham, N. C.  
 Rockingham, N. C.  
 Elizabeth City, N. C.  
 Waquoit, Mass.  
 Dyersburg, Tenn.  
 Maplewood, N. J.  
 Raleigh, N. C.  
 Indiana, Pa.  
 Brooklyn, N. Y.  
 Penn's Grove, N. J.  
 Biglerville, Pa.  
 Reidsville, N. C.  
 Raleigh, N. C.  
 Atlantic City, N. J.  
 Wilmington, Del.  
 Camden, N. J.  
 Whitestone, N. J.  
 Falls Church, Va.  
 Great Neck, N. Y.  
 Hagerstown, Md.  
 Salisbury, N. C.  
 Augusta, Ga.  
 East Orange, N. J.  
 New Rochelle, N. Y.  
 Max Meadows, Va.  
 Terre Haute, Ind.  
 Winston-Salem, N. C.  
 Chattanooga, Tenn.  
 Atlanta, Ga.  
 Ashland, Ky.

## SENIOR CLASS

Abernethy, Wray Beatrice  
 Adams, Gwendolyn Hooze  
 Alden, Priscilla  
 Allin, Elizabeth Frances  
 Alphin, Ann Marie  
 Anderson, Frances Louise  
 Applewhite, Elizabeth Cheatham  
 Arthur, Sara Michaux  
 Bagwell, Jeannette Rankin  
 Bariscillo, Virginia  
 Barnhill, Lola Louise  
 Barrett, Mary Dean  
 Barrow, Mary Rebecca  
 Bell, Bettina Lee  
 Bobbitt, Mildred Heavlin  
 Bothwell, Ludie Mae  
 Braznell, Mary Jane  
 Breedlove, Susan Caroline  
 Briggs, Frances Markham  
 Brooks, Frances Ellis  
 Brown, Betty Jean  
 Brown, Kathleen Maidee  
 Brugh, Louise Elizabeth

Durham, N. C.  
 Martinsburg, W. Va.  
 New York, N. Y.  
 Fort Bragg, N. C.  
 El Dorado, Ark.  
 Danville, Va.  
 Halifax, N. C.  
 Huntington, W. Va.  
 Raleigh, N. C.  
 Asbury Park, N. J.  
 Wilmington, Del.  
 Stamford, Conn.  
 Zebulon, N. C.  
 Fairmont, W. Va.  
 Durham, N. C.  
 Hickory, N. C.  
 Miami Beach, Fla.  
 Durham, N. C.  
 Durham, N. C.  
 Warsaw, N. C.  
 Blanchester, O.  
 South Orange, N. J.  
 Montgomery, W. Va.

- Burgess, Lucille  
 Butt, Dorothy Eloise  
 Butts, Elsa Louise  
 Caldwell, Elizabeth Haynes  
 Campbell, Martha  
 Carlen, Margaret Alice  
 Carpenter, Ruth Moore  
 Clay, Mary Drew  
 Costigan, Carroll  
 Creery, Dorothy Helen  
 Crocker, Martha Elisabeth  
 Crowder, Margaret Macon  
 Culp, Evelyn  
 Curtis, Evelyn  
 Davidson, Ada Frances  
 Davis, Betsy Hale  
 DeHuff, Catherine Agnes  
 Down, Martha Jane  
 Edwards, Roberta Clyde  
 Elmiger, Marguerite  
 Emery, Elizabeth Stewart  
 Erion, Mary Elizabeth  
 Finger, Margaret Louise  
 Fleet, Gertrude  
 Fletcher, Grace Elizabeth  
 Fraser, Ethel Jean  
 Fraser, Louise Wright  
 Fuller, Elizabeth Carter  
 Fuller, Epsie  
 Garrard, Ruth Camille  
 Gibson, Lillian Mai  
 Gillin, Hazelle Delano  
 Goree, Mary Louise  
 Grotlich, Louise Kathryn  
 Hardin, Hilliard Frances  
 Hatcher, Elizabeth  
 Hawkins, Jane Northcutt  
 Henry, Dorothy Kathleen  
 Horsting, Jane Ellen  
 Howell, Mary Catherine  
 Ivey, Sara Mach  
 Jarvis, Ora Alpha  
 Jefferson, Ann Marie  
 Jernigan, Nancy Garrett  
 John, Helene  
 Johnson, Kathryn Eloise  
 Jones, Margaret Adelia  
 Kelley, Jane  
 Kilduff, Barbara Elizabeth  
 Kirk, Margaret Westmoreland  
 Kitchen, Jane Crowell  
 Koch, Gretchen Arline  
 Koehnlein, Betty  
 Krummel, Mary Eleanor  
 Lane, Bernice Elizabeth  
 Laprade, Nancy Elizabeth  
 Leon, Virginia Naomi  
 Levitt, Helen Bernice  
 Lewis, Elizabeth Holmes  
 Liverant, Freda Helen  
 Summit, N. J.  
 Brooklyn, N. Y.  
 New Rochelle, N. Y.  
 Marion, N. C.  
 Bradenton, Fla.  
 Cookeville, Tenn.  
 Garden City, N. Y.  
 Macon, Ga.  
 Bloomington, Ill.  
 Drexel Hill, Pa.  
 Tulsa, Okla.  
 Raleigh, N. C.  
 New London, N. C.  
 Hawthorne, N. J.  
 Augusta, Ga.  
 Baltimore, Ga.  
 Cynwyd, Pa.  
 Pleasant Ridge, Mich.  
 Troy, N. C.  
 Bayonne, N. J.  
 Sanford, Me.  
 Orchard Park, N. Y.  
 Maiden, N. C.  
 Winter Haven, Fla.  
 Durham, N. C.  
 Brooklyn, N. Y.  
 Fort Bragg, N. C.  
 Arlington, Va.  
 Lumberton, N. C.  
 Durham, N. C.  
 Elizabeth, N. J.  
 Bangor, Me.  
 Chattanooga, Tenn.  
 Silver Spring, Md.  
 Clover, S. C.  
 High Point, N. C.  
 Marietta, Ga.  
 Atlanta, Ga.  
 Wilmette, Ill.  
 Salt Lake City, Utah  
 Bluffton, Ga.  
 Charleston, W. Va.  
 Fountain, N. C.  
 Ahoskie, N. C.  
 Uniontown, Pa.  
 Glen Burnie, Md.  
 Lenoir City, Tenn.  
 Washington, D. C.  
 Waterbury, Conn.  
 Starkville, Miss.  
 Ashland, Ky.  
 Pittsburgh, Pa.  
 Kenmore, N. Y.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Westfield, N. J.  
 Petersburg, Va.  
 Virginia Beach, Va.  
 York, Pa.

Lutz, Ethel Elizabeth  
MacClements, Mary Helen  
McClenny, Marguerite Elizabeth  
McConnell, Janet Elizabeth  
McGinnis, Madeline  
MacLeod, Betsy Kennedy  
Margolis, Kathryn  
Marks, Laura Geneva  
Marshall, Betty Jane  
Martin, Katherine Mary  
Marx, Gloria Helene  
Matheson, Emily  
Maule, June  
Milliette, Jeanne  
Mizell, Louise McDavid  
Moreton, Jeannette Estelle  
Oak, Eleanor  
Oliver, Ann.  
Ord, Jean Sanders  
Osborn, Mary Kathryn  
Park, Marion Yancey  
Patterson, Anna Mildred  
Pedeflous, Marie Louise  
Pennell, Elizabeth Patricia  
Perdue, Maxine Roberta  
Peters, Margaret Haile  
Pethick, Mary Grace  
Phillips, Susan Latimore  
Porritt, Dorothy Elizabeth  
Porter, Anna Mae  
Pridgen, Janis  
Puckett, Nell Hinson  
Rawdon, Janet  
Rescorla, Betty  
Rettew, Janet Pierce  
Rice, Ruth Harriet  
Rieger, Vivian Theresa  
Roe, Jane Elizabeth  
Rosch, Beatrice  
Ruark, Frances Ione  
Ruffcorn, Eleanor Foster  
Ruffin, Mary Leona  
Russell, June  
Saleeby, Helen  
Sarmiento, Maria Trinidad  
Sawyer, Dorothy Louise  
Schoenberger, Ruth Isobel  
Scott, Ruth Eleanor  
Seawall, Elizabeth Carolyn  
Sexton, Edna Earle  
Shortlidge, Elizabeth Nieweg  
Shuford, Betty Lindsay  
Simmons, Ruth Virginia  
Smith, Helen Baxter  
Smith, Muriel  
Smith, Virginia Bryce  
Smither, Lucy Gray  
Southworth, June Anne  
Stamets, Grace  
Stine, Doris Gwendolyn  
Ridgewood, N. J.  
Charlotte, N. C.  
Durham, N. C.  
Fayetteville, N. C.  
Montclair, N. J.  
Buffalo, N. Y.  
Atlantic Beach, L. I., N. Y.  
Sanford, N. C.  
Hendersonville, N. C.  
New York, N. Y.  
River Edge, N. J.  
Atlanta, Ga.  
Miami Beach, Fla.  
Drexel Hill, Pa.  
Opp, Ala.  
Erie, Pa.  
Bound Brook, N. J.  
Westfield, N. J.  
McKeesport, Pa.  
DuBois, Pa.  
Leland, Miss.  
Durham, N. C.  
Plainfield, N. J.  
Fort Bragg, N. C.  
Canton, O.  
Jacksonville, Fla.  
Southern Pines, N. C.  
Chattanooga, Tenn.  
Birmingham, Mich.  
Greensboro, Md.  
Savannah, Ga.  
Charlotte, N. C.  
Oberlin, O.  
Wilkes-Barre, Pa.  
Harrisburg, Pa.  
Bluefield, W. Va.  
Port Richmond, S. I., N. Y.  
Moundsville, W. Va.  
White Plains, N. Y.  
Park Ridge, Ill.  
Des Moines, Iowa  
Raleigh, N. C.  
Pensacola, Fla.  
Dillon, S. C.  
Saugerties, N. Y.  
Kenosha, Wis.  
Lawrenceville, N. J.  
Waynesburg, Pa.  
York Village, Me.  
Zebulon, N. C.  
Lincoln University, Pa.  
Conover, N. C.  
Wilmington, Del.  
Virginia Beach, Va.  
La Grange, Ga.  
Baldwin, L. I., N. Y.  
Winston-Salem, N. C.  
Edgewater, Md.  
Mars, Pa.  
Hagerstown, Md.

Stone, Dorothy Haines  
 Stratton, Mary Caroline  
 Tabor, Wilma Countess  
 Tepper, Ruth Elise  
 Thoms, Joan Louise  
 Townsend, Priscilla Anne  
 Vantine, Ora Jean  
 Wallace, Jean Loretta  
 Weischer, Virginia  
 Weller, Mary Elizabeth  
 Whitaker, Elizabeth Anne  
 Wichum, Carolyn Georgene  
 Wiggins, Betty Sydnor  
 Wilkins, Dorothy Barnum  
 Williams, Martha Jane  
 Wilson, Helen Hall  
 Winston, Kennon Wren  
 Winters, Jane  
 Witten, Helen Rose  
 Wolford, Isabelle Hamlin  
 Womble, Olivia  
 Woodard, Mary Elizabeth  
 Woods, Lydia Annis  
 Wray, Jean  
 Wright, Florence Margaret  
 Wriston, Muriel Lincoln  
 Zecher, Dorothea May  
 Zuckerman, Ethel Mae

Biddeford, Me.  
 Lewisburg, W. Va.  
 Boissevain, Va.  
 Baltimore, Md.  
 Hawthorne, N. J.  
 Port Arthur, Texas  
 Great Falls, S. C.  
 Newark, N. J.  
 Montrose, N. Y.  
 Pittsburgh, Pa.  
 Indianapolis, Ind.  
 Brooklyn, N. Y.  
 Macon, Ga.  
 Rockville Center, L. I., N. Y.  
 Easton, Pa.  
 Beaver, Pa.  
 Minneapolis, Minn.  
 Greenwich, Conn.  
 Oxford, N. C.  
 Elizabeth, N. J.  
 Winston-Salem, N. C.  
 Wilson, N. C.  
 Durham, N. C.  
 Norton, Va.  
 Orangeburg, S. C.  
 Albany, N. Y.  
 Lebanon, Pa.  
 Durham, N. C.

#### SPECIAL STUDENTS

Barber, Marion Sherard  
 Bassett, Marie L.  
 Belvin, Eleanor  
 Conner, Henrietta Weaver  
 Crutchfield, Florence  
 Dobbs, Kate  
 Earle, Eunice Virginia  
 Edwards, Annie Parker  
 Hessee, Dorothy Ann  
 Hime, Lillian  
 \*Hooker, Virginia Elizabeth  
 James, Ruby Davis  
 Jenkins, Barbara  
 Lavinder, Douglas Hancock  
 Lethbridge, Mae DeVoe  
 Lineberry, Foy  
 Martin, Caroline  
 Massenburg, Sue White  
 Murray, Minnie Louise  
 O'Neal, Ruth  
 Parker, Mildred Frances  
 Roberts, Frances Elizabeth  
 Royster, Lucy  
 Ruestow, Fides  
 Strayhorn, Louise  
 Teer, Mary Elizabeth  
 Whitted, Theo Holleman  
 Williams, Iola Crisp

Vicksburg, Miss.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Stovall, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Roxboro, N. C.  
 Scranton, Pa.  
 Durham, N. C.  
 Durham, N. C.  
 Raleigh, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Dunn, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Henderson, N. C.  
 Germany  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.

## AUDITORS

Newton, Mrs. T. R.  
Wright, Mrs. T. D.

Durham, N. C.  
Durham, N. C.

## COLLEGE OF ENGINEERING

## FRESHMAN CLASS

Bargeon, Joseph Robert	Mt. Clemens, Mich.
Bauer, William Harrison, Jr.	Washington, D. C.
Bean, Robert Nelson	Arlington, Va.
Beeson, Donald Richard	Johnson City, Tenn.
Bennett, Milton Dawson	Rocky Mount, N. C.
Benscoter, Dan Taylor	Kane, Pa.
Boehing, Herman August	Richmond, Va.
Boutwell, Frederick Kent	Durham, N. C.
Bowman, Don Allen	Jamaica Estates, N. Y.
Brandon, Daniel Morris	Charlotte, N. C.
Burgess, James Garnett	Richmond, Va.
Burnette, Frank Rupert	Shaker Heights, O.
Chapin, Harrison Lyon, Jr.	Rochester, N. Y.
Cochran, Robert Lawrence	Rockmart, Ga.
Conkling, Robert Howard	Pelham Manor, N. Y.
Crane, Ernest George	Trenton, N. J.
Cummins, Gordon Wilson	Canonsburg, Pa.
Daniel, John James Sharmon	Claxton, Ga.
Darling, Lawrence Whedon	Madison, Conn.
Denis, Charles Raymond	Needham, Mass.
Dodd, John Stuart	Sea Girt, N. J.
Donahoe, Donald David	Detroit, Mich.
Droge, Arthur John	Woodhaven, N. Y.
Dunbar, Neal B.	Chicago, Ill.
Dunn, William Redfield	Croton-on-Hudson, N. Y.
Elder, William Howard	Columbia, S. C.
Ervin, Fred Reid	Durham, N. C.
Everett, Robert Rivers	Niantic, Conn.
Everett, Theodore Joseph	Niantic, Conn.
Ferguson, Henry Lee, Jr.	Durham, N. C.
Fisher, James Lee, Jr.	Youngstown, O.
Fisher, Nelson Barrier	Vanceburg, Ky.
Fleming, Clifford Neal	Washington, D. C.
Foscue, Edward Shipman	Winnetka, Ill.
Fraas, George William	Manhasset, N. Y.
Gallatin, Harry Conar, Jr.	Connellsville, Pa.
Galt, John Gillespie	Glen Moore, Pa.
Gantzhorn, John Edwin	Tannersville, Pa.
Goddard, John Ervin	Rocky Mount, N. C.
Gongwer, James Cornell	Guntersville Dam, Ala.
Goode, Vernon Durham	Charlotte, N. C.
Green, Frederick Edward	Hillsboro, N. C.
Griffith, William Richard	Altoona, Pa.
Gundlach, George	Cincinnati, O.
Harrington, Thomas Allen	Glencoe, Ill.
Harris, Jack	Lowell, N. C.
Hege, Douglas Warwick	Winston-Salem, N. C.
Hoover, James Quentin	Chambersburg, Pa.
Hornaday, Wayne Arington	Greensboro, N. C.
Howe, James Taburn	Durham, N. C.

James, Ernest Gordon, Jr.  
 Johnson, Shirley A.  
 Johnston, Ronald Alexander  
 Klug, Stanley Henry  
 Korstian, Robert J.  
 Larson, Gilbert Arthur  
 Lennon, Emmot Edward  
 Little, Joseph Pritchard  
 McNairy, Wyatt Donald  
 Macfarlane, Robert Peter  
 MacLachlan, William Malcolm  
 Manchester, Frederick Hoover  
 Marks, James Ossie  
 Martin, James Watkins  
 Mercer, Jack Franklin  
 Moffett, Howard Rogers  
 Monie, Donald John  
 Morton, John Jackson  
 Murphy, John James  
 Myers, Richard Tennyson  
 Mysko, William John  
 Napier, James Edward  
 Neu, Edward Alfred, Jr.  
 Neu, Herbert Arthur  
 O'Briant, Lex Eugene  
 Olson, Thomas  
 Painter, Kenyon Vickers  
 Parker, James Bruce  
 Petty, James Britt  
 Poister, Paul Edwin  
 Porter, Winston Willis  
 Powers, James Woods  
 Rasmussen, George Welsh  
 Risedorf, Harry Myers  
 Rogers, Benjamin Winston, Jr.  
 Roper, Jack  
 Rose, Murray Fontaine  
 Sawyer, Jack Hodgins  
 Sayre, Daniel Eugene  
 Sayre, Richard Homer  
 Scott, William Lee, Jr.  
 Shea, James Andrew  
 Sheats, Harold Weldon  
 Shirley, John V.  
 Shirley, William Francis  
 Skinner, John Travis, II  
 Smith, Jack Weller  
 Strickland, Wyatt Bailey  
 Venable, Paul Carrington  
 Waldron, John Wood  
 Walker, Hamilton Torrey  
 Werneke, Francis Henry

Montclair, N. J.  
 Philadelphia, Pa.  
 Rochester, N. Y.  
 Oakdale, L. I., N. Y.  
 Durham, N. C.  
 Emporium, Pa.  
 Watervliet, N. Y.  
 Charlotte, N. C.  
 Erie, Pa.  
 Grand Rapids, Mich.  
 Detroit, Mich.  
 Asheville, N. C.  
 Sanford, N. C.  
 Durham, N. C.  
 Pontiac, Mich.  
 Greensboro, N. C.  
 Moosic, Pa.  
 Charlotte, N. C.  
 Canterbury, Conn.  
 Upper Montclair, N. J.  
 Irvington, N. J.  
 Durham, N. C.  
 East Orange, N. J.  
 Leonardo, N. J.  
 Durham, N. C.  
 Penns Grove, N. J.  
 Cleveland, O.  
 Dunn, N. C.  
 Charlotte, N. C.  
 Beaver Falls, Pa.  
 East Orange, N. J.  
 Hamlet, N. C.  
 Roanoke, Va.  
 Winstead, Conn.  
 Durham, N. C.  
 Johnson City, Tenn.  
 Durham, N. C.  
 Virginia Beach, Va.  
 Huntington, W. Va.  
 River Forest, Ill.  
 Lexington, N. C.  
 Great Neck, N. Y.  
 Charlotte, N. C.  
 Buffalo, N. Y.  
 Buffalo, N. Y.  
 Durham, N. C.  
 South Weymouth, Mass.  
 Durham, N. C.  
 Cristobal, Canal Zone  
 Upper Montclair, N. J.  
 West Collingswood, N. J.  
 Narrowsburg, N. Y.

#### SOPHOMORE CLASS

Alpert, Arthur Malcolm  
 Andrews, Ralph John, Jr.  
 Batten, John C., Jr.  
 Bradley, Charles H.  
 Bromage, John Stuart

Chicopee Falls, Mass.  
 New Haven, Conn.  
 Charlotte, N. C.  
 Hagerstown, Md.  
 Cranford, N. J.



Chapin, Reynold Sayre  
 Clous, David Arthur  
 Creamer, Robert Hemphill  
 Duncan, Joseph Capers  
 Eddy, James Henry, Jr.  
 Gingland, Richard Parsons  
 Gregson, Jack Roger  
 Groesbeck, William F.  
 Hanson, Charles Walter  
 Hart, Errol Lee  
 Hastings, George Julian  
 Highsmith, James Lindsay  
 Himelright, Loring Kenneth  
 Holley, Charles Henry  
 Hunter, Charles William, Jr.  
 Jones, James Latimer  
 Kelcec, George  
 King, Carl Fish  
 Larsson, William  
 Lauppe, Carl, Jr.  
 Livengood, David Johnson  
 Lucas, Cecil Swain  
 Lupton, Frederick Arthur, Jr.  
 Molina, Alexander William  
 Munroe, Philip Reed  
 Myers, Dale Clifford  
 Neyhart, Fred Trainer  
 Olson, Vernon Arthur  
 Parker, Charles Robin  
 Patterson, Herbert George  
 Pattinson, Hulme Holmes  
 Peck, David Brainard  
 Perinovich, Robert Emil  
 Phillips, Hugo Reed  
 Price, Robert Clarke  
 Reedy, Joseph S.  
 Robinson, Donald Lane  
 Ross, James H.  
 Schoonover, Carleton Meredith  
 Sisk, Earl Hoke, Jr.  
 Smith, Gerrit Curtis  
 Smith, Walter Gold  
 Sprague, Roger Allen  
 Tuten, Bruce Ladson  
 Timberlake, Walter Carr, Jr.  
 Vickers, Ronald  
 Wilbur, Richard Snow  
 Womble, Eric Eugene  
 Flushing, N. Y.  
 St. Albans, N. Y.  
 Atlantic City, N. J.  
 Asheville, N. C.  
 Elizabeth, N. J.  
 Chicago, Ill.  
 Morristown, N. J.  
 Iliion, N. Y.  
 Cleveland Heights, O.  
 East Orange, N. J.  
 Palisades Park, N. J.  
 Durham, N. C.  
 Winchester, Va.  
 Ford City, Pa.  
 Maplewood, N. J.  
 Gastonia, N. C.  
 Ocean Grove, N. J.  
 Benson, Vt.  
 Staten Island, N. Y.  
 Springfield, Mass.  
 Durham, N. C.  
 Durham, N. C.  
 Rockingham, N. C.  
 Camaguey, Cuba  
 Braintree, Mass.  
 Harrisburg, Pa.  
 Milton, Pa.  
 Wantagh, L. I., N. Y.  
 Matanzas Prov., Cuba  
 Akron, O.  
 Chatham, Ontario, Canada  
 Binghampton, N. Y.  
 Brooklyn, N. Y.  
 New Orleans, La.  
 Ocean City, N. J.  
 Bloomsburg, Pa.  
 Buffalo, N. Y.  
 Elkins, W. Va.  
 Charlotte, N. C.  
 Gastonia, N. C.  
 Madison, Conn.  
 Durham, N. C.  
 Swampscott, Mass.  
 Charlotte, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Durham, N. C.

## JUNIOR CLASS

Abbott, Ward D.  
 Ager, John Curtis  
 Beck, Clarence Vickers, Jr.  
 Byrum, John Franklin  
 Byrum, Thomas Jefferson  
 Carter, Everitt A.  
 Dorsey, George Allan  
 Esberg, John Harvey  
 Orchard Park, N. Y.  
 Birmingham, Ala.  
 St. Louis, Mo.  
 Great Falls, S. C.  
 Great Falls, S. C.  
 Reading, Pa.  
 Washington, D. C.  
 Biltmore, N. C.

Fyles, Cleveland Saunders  
 Griswold, Augustus Wharton  
 Kellerman, George Harvey  
 McCalip, Curtis Edgar  
 MacLauchlan, John Donald, Jr.  
 Peppler, John Ray  
 Robertson, James Victor  
 Russell, Donald Clark  
 Rutledge, John Clifton  
 Schaidt, Leander, Jr.  
 Schmidt, Howard O.  
 Varga, George Francis  
 Woollard, Don Edward

Bethel, Vt.  
 West Haven, Conn.  
 South Pittsburg, Tenn.  
 Washington, D. C.  
 Brockway, Pa.  
 Walton, N. Y.  
 Athens, W. Va.  
 Chicago, Ill.  
 Durham, N. C.  
 Cumberland, Md.  
 New Canaan, Conn.  
 Phillipsburg, N. J.  
 Chicago, Ill.

## SENIOR CLASS

Abbott, John Alfred, Jr.  
 Barden, James Floyd, Jr.  
 Berini, Joe Frank  
 Bryan, William Lyttle  
 Cayce, Edgar Evans  
 Cramer, Wellington Morley  
 Dotter, Richard Allin  
 Falciani, Romeo Alfred  
 Hatch, John P.  
 Hitch, Robert Arthur  
 Hurlbut, John Hovey  
 James, Robert Louis  
 Kreiser, C. Frederick  
 Nickerson, Charles Henry  
 Oviatt, Milton Payne  
 Pifer, Lewis Weaver  
 Powell, Joe Reade  
 Powers, William James  
 Ramsey, Charles Wesley, Jr.  
 Sherron, Roger Jackson, Jr.  
 Treut, Walter Eugene  
 von Sothen, Edward A., Jr.  
 Webster, Christopher Rowland  
 Whitted, Hugh Edwin, Jr.

Hagerstown, Md.  
 Goldsboro, N. C.  
 Durham, N. C.  
 Durham, N. C.  
 Virginia Beach, Va.  
 Boston, Mass.  
 Freeport, N. Y.  
 Hammonton, N. J.  
 White Plains, N. Y.  
 Wilmington, Del.  
 Oak Park, Ill.  
 Petersburg, Va.  
 Lebanon, Pa.  
 Torrington, Conn.  
 Hamden, Conn.  
 Durham, N. C.  
 Durham, N. C.  
 Newtown, Conn.  
 Charlotte, N. C.  
 Durham, N. C.  
 Rutherford, N. J.  
 Jamaica, N. Y.  
 Tappahannock, Va.  
 Durham, N. C.

## SPECIAL STUDENT

Hodgens, Edward Haskell

Townville, S. C.

## THE GRADUATE SCHOOL OF ARTS AND SCIENCES

## ACADEMIC YEAR, 1938-39

Abbott, Carol Hope	Minneapolis, Minn.
A.B. (Macalester College), A.M. (University of Minnesota), History.	
Abramovitch, Benjamin	Montreal, Que., Canada
B.S. (McGill), Chemistry, Physics.	
Allen, Francis Robbins	Chapel Hill, N. C.
A.B. (Antioch College), A.M. (Columbia), Family Law.	
Allen, Ruth Couch	Raleigh, N. C.
B.S., A.B. (Meredith College), A.M. (Duke), English, German.	
Anderson, Marcia Lee	Durham, N. C.
A.B. (Bryn Mawr College), A.M. (Duke), English	

Asan, Haydar (Turkish Tobacco Institute), Botany.	Istanbul, Turkey
Austin, Marguerite Zelle A.B. (Winthrop College), Romance Languages, English.	Rock Hill, S. C.
Ayers, John Carr A.B. (Kalamazoo College), M.S. (Kansas State College), Zoology.	Marcellus, Mich.
Ballard, Carroll Chadwick A.B. (Duke), Economics, Political Science.	Exmore, Va.
Barbour, William Johnston A.B. (University of North Carolina), Botany, Forestry.	Atlanta, Ga.
Baum, Rhoda May A.B. (Greensboro College), Chemistry.	Kitty Hawk, N. C.
Baxt, Victor Joseph B.S. (Rhode Island State College), Chemistry, Physics.	Providence, R. I.
Beckman, John Fink A.B. (Stanford), Chemistry.	Lodi, Calif.
Bell, Mary Elizabeth A.B. (Mount Holyoke College), Economics.	Ridgeway, Pa.
Bennett, Georgia Belle A.B. (College of William and Mary), A.M. (Duke), Psychology, Zoology.	Richmond, Va.
Bethel, James Samuel B.S.F. (University of Washington), Forestry.	Roy, Wash.
Bethune, Mary Kathleen A.B. (Flora Macdonald College), English.	Durham, N. C.
Bolen, Claude Waldron A.B. (Emory and Henry College), A.M. (Duke), History.	Bluefield, W. Va.
Bond, Esther May B.S., M.S. (Florida State College for Women), Psychology, Mathematics.	Sarasota, Fla.
Boomhour, Elizabeth Gregory A.B. (Meredith College), A.M. (Cornell), Botany.	Raleigh, N. C.
Bortner, Clyde Randall B.S. (Franklin and Marshall College), Chemistry, Physics.	Hanover, Pa.
Boyer, Charles Chester B.S. (St. Bonaventura College), Zoology, Anatomy.	Scottsville, N. Y.
Brach, Earl Tilton A.B. (Duke), Greek, Latin.	Durham, N. C.
Bradley, Katherine A.B. (Greensboro College), Zoology, Botany.	Forest City, N. C.
Brandis, Roland Buford, Jr. A.B. (University of Richmond), Economics.	Richmond, Va.
Breslow, David Samuel B.S. (College of the City of New York), Chemistry.	Ozone Park, N. Y.
Brice, Ashbel Green A.B., A.M. (Columbia), English.	York, S. C.
Bright, Robert Dietrich A.B. (Dartmouth College), Chemistry.	Passaic, N. J.
Brown, Corolin Constance B.S., A.M. (Oregon), English.	Milwaukee, Wis.
Burt, Everett Johnson, Jr. A.B. (Berea College), A.M. (Duke), Economics.	Jackson, Mich.
Bushong, Millard Kessler A.B. (Roanoke College), A.M. (West Virginia), History.	Charles Town, W. Va.
*Bussell, Wilsie Florence A.B., A.M. (Duke), Romance Languages.	Durham, N. C.

\* A.M. to be conferred June, 1939.

- Cain, Herbert Lloyd  
A.B. (Southwestern), A.M. (Duke), Greek, Latin. Asheville, N. C.
- Canaday, Ernest Franklin  
A.B. (William Jewell College), A.M. (University of Missouri), Mathematics. Raleigh, N. C.
- Carraway, James Blanding  
A.B. (Furman), Economics. Olanta, S. C.
- Carver, Beatrice Marie  
A.B. (Duke), Education. Bahama, N. C.
- Cathey, William Andrew  
A.B. (Davidson College), Education. Davidson, N. C.
- Causey, Nelle Bevel  
B.S. (College of the Ozarks), A.M. (University of Arkansas), Zoology. Fayetteville, Ark.
- Chadwick, Donald Gray  
A.B. (University of North Carolina), Education. Straits, N. C.
- Chaffin, Nora Campbell  
A.B., A.M. (Duke), History. Durham, N. C.
- Chesson, Josie Foy  
A.B. (Duke), A.M. (Scarritt College), Education. Durham, N. C.
- Cleaveland, Fred Neill  
A.B. (Duke), Religion, Sociology. Orange, N. J.
- Cleaves, Alden Parker  
A.B., A.M. (Boston), Physics. Harvard, Mass.
- Cline, John  
A.B. (Duke), English. Durham, N. C.
- Colley, Frank Harris  
A.B. (Duke), History, Political Science. Washington, Ga.
- Collins, Harold Reeves  
A.B. (Duke), A.M. (Columbia), English. S. Seaville, N. J.
- Coloms, Lester Hubert  
A.B. (Emory and Henry College), B.D. (Emory), Religion, Philosophy, Sociology. Cleveland, Tenn.
- Cook, Ellsworth Barrett  
B.S. (Springfield College), Zoology. Springfield, Mass.
- Cooper, Gerald Rice  
A.B., A.M. (Duke), Chemistry. Durham, N. C.
- Copeland, Lewis Campbell  
A.B. (Texas Christian), A.M. (University of Chicago), Sociology. Houston, Texas
- Correll, Donovan Stewart  
A.B., A.M. (Duke), Botany. Providence, R. I.
- Covington, Philip Stanhope Sheffield  
A.B. (Emory), English. Moultrie, Ga.
- Cox, Headley Morris, Jr.  
A.B. (Duke), English. Mt. Olive, N. C.
- Craig, Ruth Winifred  
A.B. (University of North Carolina), History. Durham, N. C.
- Crampton, Barbara Martha  
A.B. (American International College), Psychology. Rutland, Vt.
- Creegan, Robert Francis  
A.B. (Marietta College), A.M. (Duke), Philosophy, Psychology. Chautauqua, N. Y.
- Cuyler, William Kenneth  
A.B. (University of Texas), A.M. (Western Reserve), Physiology. Austin, Tex.
- Dale, William Pratt, II  
A.B., A.M. (Duke), History. Greensboro, Ala.
- Decker, John Peter  
B.S. (University of Idaho), Botany. Ione, Wash.
- Delaplane, Florence Hine  
A.B. (Oberlin College), English. Durham, N. C.

Derr, Paul Franklin B.S. (Duke), Chemistry, Physics.	W. Hazleton, Pa.
DeTurk, William Ernest A.B., A.M. (University of Illinois), Zoology.	Urbana, Ill.
*Dibeler, Vernon Hamilton B.S. (Duke), Chemistry.	Roselle Park, N. J.
Doty, Cornelia Allen A.B. (Stanford), A.M. (Mills College), Education, Psychology.	Durham, N. C.
**Doty, Roy Anderson, Jr. A.B., A.M. (Duke), Education, Psychology.	Rogersville, Tenn.
Dowling, Arthur Joseph, Jr. A.B. (Duke), Philosophy, Psychology.	Savannah, Ga.
Duke, Kenneth Lindsay A.B. (Brigham Young), Zoology.	Heber, Utah
Duncan, Harry Alvin A.B. (Grinnell College), English.	Waterloo, Iowa
Dunsky, Irvin A.B. (University of Newark), Sociology, Psychology.	Durham, N. C.
Dyas, Harold Eugene B.S. (University of Wisconsin), Chemistry, Physics.	Butte, Mont.
Eddy, George Norman Th.B. (Gordon College), A.M. (University of New Hampshire), M.Ed. (Springfield College), Sociology.	Durham, N. C.
Eicher, Chester Franklin A.B., B.Sc. (Ohio State), B.D. (Meadville Theological School), A.M. (University of Chicago), Education.	Durham, N. C.
Eicher, Eva Louise Perkins A.B. (Atlantic Christian College), Education.	Wilson, N. C.
Ewing, Thomas Newell, Jr. A.B. (DePauw), A.M. (Syracuse), Psychology, Sociology.	Carlinville, Ill.
Farley, John Thomas B.B.A. (Manhattan College), M.S. (Columbia), Economics.	New York, N. Y.
Fisher, Harriet Miller A.B. (Hood College), Zoology, Chemistry.	Keyser, W. Va.
Flemister, Launce Johnson, Jr. A.B. (Duke), Zoology.	Atlanta, Ga.
Fletcher, Mary Little A.B. (Greensboro College), English.	Gibson, N. C.
Foerster, Alma Pauline A.B. (Holyoke College), A.M. (Smith College), History.	Holyoke, Mass.
Formwalt, John McClellan A.B. (Carson-Newman College), Physics, Mathematics.	Jefferson City, Tenn.
Foster, Hazel Elizabeth A.B. (Hood College), A.M. (Duke), Political Science.	Brunswick, Md.
Frey, Ellen Frances A.B. (Barnard College), English.	Elberon, N. J.
Fukuhara, Nobukazu (Yokohama Technical College), Chemistry.	Tokyo, Japan
Fuller, Eleanore Ann A.B. (H. Sophie Newcomb Memorial College), Sociology, Education.	Laurel, Miss.
Garber, Paul Leslie A.B. (College of Wooster), B.D., Th.M. (Louisville Presbyterian Theological Seminary), Philosophy.	Dubuque, Iowa
Garner, William Nelson B.S. (Bethany College), Zoology.	Bethany, W. Va.

\* B.S. to be conferred June, 1939.

\*\* A.M. to be conferred June, 1939.

- Gerard, Frank Thomas, Jr.  
A.B. (Duke), English, History. Grenada, Miss.
- Gerow, James Anthony  
B.S. (North Carolina State College), Sociology, Education. Raleigh, N. C.
- Gibson, Harvey Taylor  
A.B. (Furman), A.M. (Duke), English. Greenville, S. C.
- Gilbert, Paul Wilner  
A.B., A.M. (University of Rochester), Mathematics. Avon, N. Y.
- Gill, Ruth Ellen  
A.B. (Woman's College of the University of North Carolina), Physics, Mathematics. Kittrell, N. C.
- Gould, Robert Kent  
A.B. (Duke), Chemistry, Physics. Hamburg, N. J.
- Grant, Alma Mary  
B.A. (University of Saskatchewan), Family Law. Saskatchewan, Canada
- Greene, John Thomas  
A.B., B.D. (Duke), Philosophy, Sociology. Rougemont, N. C.
- Groves, Gladys Hoagland  
A.B. (University of New Hampshire), Family Law. Chapel Hill, N. C.
- Guyton, Percy Love  
B.S. (Mississippi State College), M.B.A. (Northwestern), Economics. Washington, D. C.
- Hadley, Elbert Hamilton  
B.S., M.S. (University of Michigan), Chemistry. Hamburg, N. Y.
- Haman, James Blanding  
A.B. (DePauw), English. Vaiden, Miss.
- Hamilton, James David Tillman  
A.B., A.M. (University of Mississippi), History. Meridian, Miss.
- Hargreaves, Herbert Walter  
A.B. (University of Nevada), A.M. (Clark), Economics, Political Science. Reno, Nev.
- Harris, Sarah Sanders  
A.B. (Woman's College of Furman University), A.M. (University of South Carolina), Psychology, Zoology. Anderson, S. C.
- Harwell, George Corbin  
A.B., A.M. (Duke), English. Durham, N. C.
- Hausser, Harry Edward  
A.B. (Duke), Philosophy, English. Scranton, Pa.
- Havens, Ralph Murray  
A.B. (Baker), M.B.A. (University of Kansas), Economics. Durham, N. C.
- Henderson, Alfred James  
A.B., A.M. (University of Rochester), History. Rochester, N. Y.
- Herndon, Nettie Southworth  
A.B., A.M. (West Virginia), History. Durham, N. C.
- Herring, Benjamin Marshal  
A.B. (Duke), English. Greenville, N. C.
- Heyward, Mary Anne  
A.B. (Duke), English, German. Asheville, N. C.
- Hibbs, Max Lee  
B.S. (Alabama Polytechnic Institute), History, Economics. Alabama City, Ala.
- Hildebrand, Abbie Seals  
B.S. (Asheville Normal and Teachers College), Education, Psychology. Connelly Springs, N. C.
- Holder, Virginia Smart  
A.B. (Randolph-Macon Woman's College), A.M. (Duke), Latin. Portsmouth, Va.
- Hopkins, James Franklin  
A.B. (University of Mississippi), A.M. (University of Kentucky), History. Noxapater, Miss.
- Howie, Naomi  
A.B. (Greensboro College), Religion. Thomasville, N. C.
- Hudson, Boyd Ellyson, Jr.  
A.B. (Duke), Chemistry, Physics. Jeffs, Va.



Humphreys, Mary Emily	Berlin, Md.
A.B. (Western Maryland College), A.M. (Duke), Botany, Zoology.	
Hursh, Edwin May	Westerville, Ohio
A.B. (Otterbein College), A.M. (University of Chicago), Sociology.	
Hursh, Mary Lambert	Westerville, Ohio
A.B. (Otterbein College), Sociology.	
Jenkins, Barbara Jane	Dayton, Wyo.
A.B. (Duke), Botany.	
Jennings, Louis Girton	Lancaster, Pa.
A.B. (Franklin and Marshall College), Latin.	
Johnston, George Washington	Quitman, Miss.
B.S., M.S. (Mississippi State College), Botany.	
Jones, Edwin Harvie	Durham, N. C.
A.B. (Hampden-Sydney College), Romance Languages.	
Jones, John Sneed	Brentwood, Tenn.
B.S. (George Peabody College for Teachers), A.M., B.D. (Vanderbilt), Philosophy.	
Jordan, Walter Edward	Raleigh, N. C.
B.S., A.M. (Wake Forest College), M.S. (North Carolina State College), Chemistry.	
Kalber, Barbara Lou	Hartsville, S. C.
A.B. (Coker College), English.	
Kelly, George Delmore	Durham, N. C.
A.B. (Elon College), History.	
Kincheloe, Henderson Grady	Rocky Mount, N. C.
A.B. (University of Richmond), A.M. (Harvard), English.	
Kirby-Smith, John Selden	Sewanee, Tenn.
B.S. (University of the South), A.M. (Duke), Physics.	
Klein, James Raymond	Baltimore, Md.
A.B. (Duke), Biochemistry.	
Knobeloch, Dorothy Elsa	Charleston, S. C.
A.B. (Winthrop College), Education, History, Political Science.	
Kuehner, Kenneth George	Meadville, Pa.
A.B. (Allegheny College), A.M. (University of Pittsburgh), Education, Psychology.	
*Latty, Carolyn Lucile	Durham, N. C.
A.B. (Duke), Latin, Romance Languages.	
Laverty, Carroll Dee	Meeker, Colo.
A.B., A.M. (University of Colorado), English.	
Layton, James Sexton	Chapel Hill, N. C.
A.B. (University of North Carolina), Philosophy.	
Leath, James Milton	Brookhaven, Miss.
A.B. (Austin College), A.M. (Southern Methodist), Political Science.	
Lethbridge, Berry Bicombe, Jr.	Hackensack, N. J.
B.S. (Franklin and Marshall College), Economics.	
Lever, Oscar William	Blythewood, S. C.
A.B. (Wofford College), Religion, Sociology, Philosophy.	
Levy, Edward David	Hartford, Conn.
A.B. (Harvard), Biochemistry.	
Lewis, Hubert Murry, Jr.	Henderson, N. C.
B.S. (Duke), Chemistry.	
Limouze, Arthur Sanford	Kew Gardens, N. Y.
A.B. (College of Wooster), A.M. (Columbia), English.	
Liu, Yung Huo	Foochow, Fukien, China
A.B. (Hwa Nan College), A.M. (Mills College), Psychology.	
Long, John William, Jr.	Williamsport, Pa.
A.B. (Dickinson College), History.	

\* A.B. to be conferred June, 1939.

- Love, Sara Lucille  
A.B. (Greensboro College), Psychology. Durham, N. C.
- Luttrell, Everett Stanley  
B.S. (University of Richmond), Botany, Zoology, Forestry. Richmond, Va.
- McDermott, John Joseph  
B.S. (Duke), Botany, Chemistry. Durham, N. C.
- McDougall, Kenneth Dougal  
(Duke), Zoology, Philosophy. Durham, N. C.
- McWhite, Elbert Norton  
B.S. (The Citadel), M.S. (University of Georgia), Physics, Mathematics. Jasper, Ga.
- Mangrum, James Freed  
B.S. (Memphis State Teachers College), M.S. (University of Tennessee), Zoology. Elbridge, Tenn.
- Martin, Abram Venable, Jr.  
A.B. (Presbyterian College), Mathematics, Philosophy. Clinton, S. C.
- Martin, James Alfred  
A.B. (Wake Forest College), A.M. (Duke), Philosophy. Wake Forest, N. C.
- Martin, Willard Edgar, Jr.  
A.B. (Boston), A.M. (Harvard), English. Somerville, Mass.
- Maryott, Arthur Allen  
A.B. (Duke), Chemistry, Physics. Augusta, Ga.
- Mattocks, Millicent Elizabeth  
A.B. (University of Missouri), Economics. Coral Gables, Fla.
- Meares, Jefferson Sullivan  
B.S. (University of South Carolina), M.S. (North Carolina State College), Physics. Raleigh, N. C.
- Menzie, Hermine Katharine  
Ph.B., A.M. (University of Chicago), History. St. Louis, Mo.
- Mercado, Victor Ramon  
A.B. (University of Notre Dame), English. Woodhaven, L. I., N. Y.
- Merrick, Gordon Danforth  
B.S. (University of Chicago), Forestry, Botany. Tucson, Ariz.
- Mickle, Walter Alvin, Jr.  
B.S. (Guilford College), Bacteriology, Biochemistry, Zoology. Pfafftown, N. C.
- Miles, Frank Frodsham  
A.B. (University of Washington), Sociology, Economics. Durham, N. C.
- Mitchell, Robert Earl  
A.B. (Miami), English. Dayton, Ohio
- Moneyhun, Ariel  
A.B. (Duke), History, Sociology. Johnson City, Tenn.
- Moore, Eunice Martha  
B.S. (Maryland College for Women), A.M. (Johns Hopkins), Chemistry. Deep River, Conn.
- Moore, Jerry Hamilton  
B.S. (Clemson College), M.S. (North Carolina State College), Botany. Raleigh, N. C.
- Moore, Thomas Hayes  
B.S. (Roanoke College), Economics, Political Science. Roanoke, Va.
- Morris, William Lind  
B.S. (Carnegie Institute of Technology), M.S. (University of Pittsburgh), Mathematics, Physics. Asheville, N. C.
- Morrison, Garrett Weir  
A.B. (Kansas State Teachers College), Psychology, Zoology. Joplin, Mo.
- Mountjoy, Marjorie  
A.B. (Vanderbilt), Latin. Martin, Tenn.
- Mowshowitz, Israel  
A.B. (Yeshiva College), Psychology, Philosophy. Durham, N. C.
- Mumford, Carey Gardner  
A.B. (Wake Forest College), A.M. (Duke), Mathematics. Raleigh, N. C.

Munster, Ralf Friedrich William	Savannah, Ga.
A.B. (Duke), Political Science, Philosophy.	
Murray, Agnes MacGregor	Georgeville, Que., Canada
A.B. (McGill), English.	
Nelson, Melvin Frederick	Starkville, Miss.
B.S. (Mississippi State College), A.M. (Municipal University of Omaha), Political Science.	
*Northrup, Herbert Roof	Irvington, N. J.
A.B. (Duke), Economics.	
Noyer, Geneva Kline	N. Emporia, Va.
B.S. (George Peabody College for Teachers), Education.	
O'Leary, James John	Manchester, Conn.
A.B., A.M. (Wesleyan), Economics, Political Science.	
Oliver, Henry Malison, Jr.	Union City, Tenn.
A.B. (Southwestern), A.M. (Duke), Economics.	
Ostwalt, Jay Harold	Statesville, N. C.
A.B. (Davidson College), Education, Psychology.	
Owen, William Nathaniel	Schenectady, N. Y.
A.B. (Duke), Economics.	
Page, Inez Harlee	Durham, N. C.
A.B. (Duke), History.	
Park, Robert DeForest	Lakewood, Ohio
A.B. (Oberlin College), Physics, Mathematics.	
Parks, Helen Clare	Roanoke, Va.
A.B. (Duke), Chemistry, Physics.	
Peck, Robert Lawrence	Binghamton, N. Y.
B.S. (Duke), Chemistry.	
Pedersen, Peder Malvin	Durham, N. C.
A.B. (Duke), Chemistry, Physics.	
Phillips, Beula Mayra	Charlemont, Mass.
A.B. (The American International College), Chemistry, Zoology, Physics.	
Plantinga, Cornelius A.	Waupun, Wis.
A.B. (Calvin College), A.M. (University of Michigan), Philosophy, Psychology.	
Pohl, Herbert Ackland	Jacksonville, Fla.
A.B. (Duke), Chemistry.	
Pope, Marvin Hoyle	Durham, N. C.
A.B. (Duke), Religion, Greek.	
Poston, Mary Alverta	Durham, N. C.
(Duke), Bacteriology.	
Powell, Annie Mae	Valdosta, Ga.
A.B. (Wesleyan College), English.	
Pratt, Ellis Carl	Durham, N. C.
A.B. (Duke), A.B. in L. S. (University of North Carolina), Education, Sociology.	
Pratt, Francis Marion	Winston-Salem, N. C.
A.B. (Duke), Education.	
Purcell, James Slicer, Jr.	Ft. Meade, Fla.
A.B. (John B. Stetson), A.M. (Duke), English.	
Ramsey, Helen Joyce	W. Lafayette, Ind.
B.S., M.S. (Purdue), Zoology, Chemistry.	
Rein, William Christopher	Durham, N. C.
A.B. (Western Maryland College), M.Ed. (Duke), Education, Psychology, Mathematics	
Richards, Claud Henry, Jr.	Fort Worth, Tex.
A.B. (Texas Christian), Political Science, Economics.	
Richards, James Austin, Jr.	Oberlin, O.
A.B. (Oberlin College), Physics, Mathematics.	

\* A.B. to be conferred, June, 1939.

- Richmond, Martha Smith  
B.S. (North Carolina State College), Biochemistry. Raleigh, N. C.
- Roberg, Jane  
B.S. (University of Washington), Physics, Mathematics. Bellingham, Wash.
- Robinson, Blackwell Pierce  
A.B. (University of North Carolina), History, Political Science. Weldon, N. C.
- Roney, William Hamilton  
A.B. (Occidental College), A.M. (University of Michigan), Sociology. Dayton, O.
- Russ, Alexander  
B.S. (College of the City of New York), Mathematics, Physics. Brooklyn, N. Y.
- Sawyer, Mary Alice  
B.S. (Mount Mercy College), Zoology, Physics. DeLand, Fla.
- Scarborough, Henry Baldwin  
A.B. (Duke), Physics, Mathematics, Chemistry. Mt. Gilead, N. C.
- Schmitt, Mary Margaret  
A.B. (Pennsylvania College for Women), English. New Alexandria, Pa.
- \*Schoenberger, Ruth Isabel  
A.B. (Duke), English. Lawrenceville, N. J.
- Schultz, Harold  
A.B. (Columbia), History, Economics. Memphis, Tenn.
- Schwarz, Normand George  
B.S. (University of Miami), Biochemistry, Zoology, Chemistry. Miami Beach, Fla.
- Scott, Stephen William  
A.B. (Middlebury College), Chemistry, Physics. Niagara Falls, N. Y.
- Seward, Donald Monfort  
A.B. (John B. Stetson), A.M. (University of North Carolina), Mathematics. DeLand, Fla.
- Seward, William Ward, Jr.  
A.B., A.M. (University of Richmond), English. Surry, Va.
- Sharp, David Gordon  
B.S. (Rutgers), A.M. (Duke), Physics. Annandale, N. J.
- Sheehan, Donald Henry  
A.B. (Duke), English. Montclair, N. J.
- Shore, Culver Cary  
A.B. (Duke), Economics. Trinity, N. C.
- \*\*Silver, Lois Sallie  
B.S., M.S. (North Carolina State College), Sociology, Psychology. Raleigh, N. C.
- Simmons, Alma Julia  
A.B. (Ohio Wesleyan), English, Sociology. Leesburg, O.
- Sindle, Elizabeth Mary  
A.B. (Bucknell), Romance Languages. Little Falls, N. J.
- Singer, Armand Edwards  
A.B. (Amherst College), Romance Languages. Brantford, Ont., Canada
- Smith, Burke McGuire  
A.B. (Duke), Psychology, Zoology. Durham, N. C.
- Smith, Clarence McKittrick, Jr.  
A.B., B.Mus. (Newberry College), A.M. (Harvard), History. Kinards, S. C.
- Stabler, Carey Vitallis  
B.S., A.M. (University of Alabama), History. Greenville, Ala.
- Stainbrook, Edward John  
A.B. (Allegheny College), Psychology, Education. Meadville, Pa.
- Steele, Alpheus Thornton  
A.B. (Municipal University of Wichita), Economics, Sociology. Hutchinson, Kan.
- Stewart, Paul Dekker  
A.B. (Hope College), Political Science, Sociology. Washington College, Tenn.

\* A.B. to be conferred June, 1939.

\*\* M.S. to be conferred June, 1939.

Storey, John Stuart	Detroit, Mich.
A.B. (Albion College), Economics, Political Science.	
Stroupe, Henry Smith	Alexis, N. C.
B.S., A.M. (Wake Forest College), History.	
Stuckey, James Morlan	Shreveport, La.
B.S. (Centenary College), A.M. (Duke), Chemistry.	
Sturm, Albert Lee, Jr.	Appalachia, Va.
A.B. (Hampden-Sydney College), Political Science, Economics.	
Talbert, Robert Harris	Cape Girardeau, Mo.
A.B., B.S. (Southeast Missouri State Teachers College), A.M. (University of Missouri), Sociology, Economics.	
Talmage, Roy Van Neste	Greensboro, N. C.
A.B. (Maryville College), Zoology, Anatomy.	
Tate, Russell Sage, Jr.	Richmond, Va.
A.B. (University of Richmond), Economics.	
Taylor, Carrie McLean	Burlington, N. C.
A.B. (Woman's College of the University of North Carolina), Education.	
Thomas, David Boyd	Raleigh, N. C.
B.S., M.S. (North Carolina State College), Physics.	
Thompson, Kaye Ogilvie	Miami, Fla.
B.S. (University of Miami), English.	
Tilley, Nannie May	Bahama, N. C.
A.B. (Woman's College of the University of North Carolina), A.M. (Duke), History.	
Tobin, Catherine Elizabeth	Charleston, S. C.
A.B. (College of Charleston), A.M. (Duke), Latin.	
Toole, Eben Richard	Lanham, Md.
B.S. (New York State College of Forestry), A.M. (Duke), Forestry, Botany.	
Torrisi, Alfred Fred	Mt. Vernon, N. Y.
B.S. (Fordham), Chemistry.	
Triplett, Edna Bernadine	Charlotte, N. C.
A.B. (Queens-Chicora College), A.M. (Duke), English.	
Truss, Ethel Maurine	San Juan, Puerto Rico
A.B. (University of Puerto Rico), English.	
Turner, Wallace Blythe	Georgetown, Ky.
A.B. (Georgetown College), A.M. (University of Kentucky), History.	
Vick, Giles Wesley, Jr.	Statesville, N. C.
A.B. (Duke), English.	
Wade, Luther Irwin	Elkin, N. C.
A.B. (Duke), Mathematics.	
Waggoner, John Philip, Jr.	Charlotte, N. C.
A.B., B.D. (Duke), Sociology.	
Wallace, Lillian Parker	Raleigh, N. C.
A.B. (University of Denver), M.S. (North Carolina State College), History.	
Waltcher, Irving	Newport, R. I.
B.S. (Rhode Island State College), Chemistry, Physics.	
Walters, Eleanor Boyd	Gunnison, Miss.
B.S. (Mississippi Delta State Teachers College), Mathematics, Physics.	
Watson, Louise Taylor	Pinehurst, N. C.
A.B. (Newberry College), Education, Psychology.	
Watts, Hessie Brawley	Mooresville, N. C.
A.B., A.M. (Duke), English.	
Webb, John Maurice	Durham, N. C.
A.B. (Duke), A.M. (Yale), History.	
Webb, Thomas Norfleet	Hillsboro, N. C.
A.B. (University of North Carolina), Botany.	

- Wells, Elgin Miles, Jr. Jackson, Miss.  
A.B. (Mississippi College), Physics, Mathematics.
- Wharton, George Willard, Jr. Upper Montclair, N. J.  
B.S. (Duke), Zoology.
- White, Mary Rebecca Fairmont, W. Va.  
A.B. (Fairmont State Teachers College), A.M. (Duke), Latin.
- Whitehead, Talton Johnson Henderson, N. C.  
A.B. (High Point College), B.D. (Duke), Religion.
- Willich, Robert Kitiz Leonia, N. J.  
B.S. (University of Miami), Chemistry, Physics.
- Wittmeyer, Ruth Josephine Chapel Hill, N. C.  
A.B. (Vassar College), Family Law.
- Wolf, Mary Hubbard Durham, N. C.  
A.B. (Mount Holyoke College), Zoology, Botany.
- Wollman, Seymour Horace New York, N. Y.  
B.S., M.S. (New York), Physics.
- Wood, Frederic Marcus, Jr. Painesville, O.  
A.B. (Adelbert College of Western Reserve University), Latin, Greek.
- Wood, Mary Rose Jetersville, Va.  
B.S. (Farmville State Teachers College), Education, Mathematics.
- Wood, Robert Eugene Kansas City, Kan.  
A.B. (Baker), Sociology, Economics.
- Woodruff, Joseph Leroy Des Moines, Iowa  
A.B. (Tarkio College), Psychology, Sociology.
- Yarbrough, Mary Elizabeth Raleigh, N. C.  
A.B. (Meredith College), M.S. (North Carolina State College), Physiology.
- Young, DeWalt Secrist Lisbon, Iowa  
A.B. (Cornell (Iowa) College), A.M. (Duke), Chemistry.
- Yowell, Robert Burgess Durham, N. C.  
A.B. (Virginia Military Institute), Economics.

### SUMMER OF 1938; FIRST TERM

- Abernathy, Robert Clarksville, Tenn.  
B.S. (Murfreesboro State Teachers College), A.M. (George Peabody College for Teachers), English.
- Adolph, Agnes Lowe Louisville, Ky.  
A.B. (University of Louisville), Education.
- Agle, Ernest Lester Shippensburg, Pa.  
B.S. (Shippensburg State Teachers College), Education, History.
- Aimar, Caroline Picault Charleston, S. C.  
A.B. (College of Charleston), English, Romance Languages.
- Ainsley, Raymond Melvin Winston-Salem, N. C.  
A.B. (University of North Carolina), Education.
- Alessi, Albert Carl St. Clair, Pa.  
B.S. (Edinboro State Teachers College), Education.
- Alexander, Marion Elizabeth Ball Belzoni, Miss.  
B.S. (Mississippi State College for Women), Education.
- Allaben, Sara Elizabeth Thomson, Ga.  
A.B. (Georgia State College for Women), Romance Languages.
- Allan, Sarah Campbell Charleston, S. C.  
A.B. (Winthrop College), History, Education.
- Allen, Woodrow Buckhorn, Ky.  
A.B. (Union College), History.
- Allgood, Catharine Liberty, S. C.  
A.B. (Winthrop College), Education.



- Allred, David Edgar, Jr. Greensboro, N. C.  
A.B. (Asbury College), Education.
- Anderson, Annie Louise Jetersville, Va.  
B.S. (Farmville State Teachers College), Education, Romance Languages.
- Anderson, Charlotte Arlene Sheffield, Pa.  
A.B. (Grove City College), Education.
- Anderson, Ernest Rogers Matthews, Ga.  
B.S. (South Georgia Teachers College), Sociology, Education.
- Anderson, Frederick George Cessna, Pa.  
B.S. (West Chester State Teachers College), History, Sociology.
- Anderson, Julia Lynn Hixson, Tenn.  
A.B. (Maryville College), History, English.
- Ange, Linnie Chauncey Mayo, Fla.  
A.B. (Florida State College for Women), History.
- Angotti, Marie Louise Clarksburg, W. Va.  
A.B. (Fairmont State Teachers College), Education.
- Areida, James Portage, Pa.  
B.S. (Slippery Rock State Teachers College), History, Education.
- Armstrong, Leo Henry Bradenton, Fla.  
B.S. (University of Florida), Economics.
- Artrip, Elizabeth Regal Keystone, W. Va.  
B.S. (East Radford State Teachers College), Education.
- Ashby, Dewey Theodore Rome, Ga.  
A.B. (Mercer), A.M. (George Peabody College for Teachers), Education.
- Attaway, LaVerne Memphis, Tenn.  
B.S. (West Tennessee State Teachers College), Psychology, History.
- Austin, Frank Long Statesville, N. C.  
A.B. (Erskine College), Education.
- Autry, Randall Franklin Godwin, N. C.  
A.B. (University of North Carolina), English.
- Ayers, Archie Raymond Calhoun Falls, S. C.  
B.S. (University of South Carolina), Physics.
- Bailey, Rosalie Vincent Greenwood, S. C.  
A.B. (Lander College), English.
- Bailey, Ruby May Bessemer City, N. C.  
A.B. (University of Chattanooga), Romance Languages.
- Baker, Ira Lee China Grove, N. C.  
A.B. (Wake Forest College), Romance Languages.
- Baker, Ruth Maurine Daytona Beach, Fla.  
A.B. (John B. Stetson), History.
- Baldwin, Naomi Louise Montgomery, W. Va.  
A.B. (New River State Teachers College), English.
- Baldwin, Ruth McDow Whiteville, N. C.  
A.B. (Winthrop College), English.
- Baldy, Lillian Louise Pittsburgh, Pa.  
B.S. (Carnegie Institute of Technology), Education.
- Barber, Daniel Clyde, Jr. Clio, S. C.  
A.B. (The Citadel), Education, History.
- Barber, Veva Alberta Orrick, Mo.  
B.S. (Central Missouri State Teachers College), English.
- Barbot, Mary Elizabeth Charleston, S. C.  
A.B. (College of Charleston), English, Education.
- Barkley, Marion Rebecca Baden, Pa.  
B.S. (Slippery Rock State Teachers College), Education.
- Barr, Leon Vincent Westport, Pa.  
B.S. (Lock Haven State Teachers College), Education.

- Bartlett, Dossie Denzel Charleston, W. Va.  
A.B. (West Virginia Wesleyan College), History, Education.
- Bartlett, Ruth Holliday Charleston, W. Va.  
A.B. (Marshall College), History, Education.
- Batten, Charles Lemuel Micro, N. C.  
B.S. (Wake Forest College), Education.
- Baum, Rhoda May Kitty Hawk, N. C.  
A.B. (Greensboro College), Chemistry.
- Baxter, James Edward Meridian, Miss.  
A.B. (Millsaps College), Political Science.
- Baxter, Joseph Ray Camp Dix, Ky.  
A.B. (Berea College), History.
- Baxter, Lettie Leola Pensacola, Fla.  
A.B. (Florida State College for Women), English.
- Beard, Mary Julia Jacksonville, Ala.  
B.S. (Jacksonville State Teachers College), Education.
- Bearden, Annice Okolona, Miss.  
B.S. (Mississippi Delta State Teachers College), Education.
- Beaty, Elizabeth Stewart Rock Hill, S. C.  
A.B. (Winthrop College), History.
- Beaudrot, Sarah Tallulah Greenwood, S. C.  
A.B. (Lander College), English, History.
- Beck, Margaret C. Wilkinsburg, Pa.  
B.S. (Slippery Rock State Teachers College), Education, History.
- Bee, Carl Edward Duquesne, Pa.  
B.S. (Indiana State Teachers College), Education.
- Beeker, Henry Judson Green Sea, S. C.  
B.S. (Appalachian State Teachers College), Education.
- Bergstresser, Alma Claire Allentown, Pa.  
A.B. (Albright College), English.
- Berry, Christine Brooks Jackson, Miss.  
B.S. (Mississippi State College for Women), Sociology.
- Besanceney, Theodore R. Mansfield, Pa.  
B.S. (Mansfield State Teachers College), Education.
- Best, Albert Hartwell, Jr. Durham, N. C.  
A.B. (Wofford College), Education.
- Betts, Abbie Helen High Point, N. C.  
A.B. (High Point College), Education.
- Biggerstaff, Frank Malcolm Forest City, N. C.  
A.B. (Duke), Education.
- Bigham, Virgil Lee, Jr. Pontotoc, Miss.  
A.B. (Mississippi College), Education.
- Bimms, Elizabeth Feary Winter Haven, Fla.  
A.B. (Florida Southern College), Education.
- Bird, Ralph Sidney Athens, W. Va.  
B.S. (Morris Harvey College), Education.
- Black, Caroline Banks Charleston, S. C.  
A.B. (College of Charleston), History.
- Blackburn, Ethel Lee Springfield, Tenn.  
B.S. (Murfreesboro State Teachers College), Education.
- Blackburn, Patricia Jones Homestead, Fla.  
A.B. (Florida Southern College), Education.
- Blackman, John Walton, Jr. Selma, N. C.  
A.B. (Atlantic Christian College), Education.
- Blanc, Robert Vincent Lambertton, Pa.  
B.S. (Indiana State Teachers College), Education.

- Bloom, Floyd Samuel New Millport, Pa.  
B.S. (Lock Haven State Teachers College), Education.
- Bloom, Robert Louis Tyrone, Pa.  
B.S. (Shippensburg State Teachers College), English, History.
- Boatwright, Eleanor Miot Augusta, Ga.  
B.S. (Columbia), History, Sociology.
- Boland, Joseph Bethro Iaeger, W. Va.  
A.B. (Marshall College), Education.
- Bolen, Claude Waldron Bluefield, W. Va.  
A.B. (Emory and Henry College), A.M. (Duke), History.
- Bolling, Louise Porter Danville, Ky.  
B.S. (University of Kentucky), Education.
- Bomar, Porter Halbert Orangeburg, S. C.  
A.B. (Presbyterian College), Education.
- Bond, Esther May Sarasota, Fla.  
B.S., M.S. (Florida State College for Women), Psychology.
- Bondurant, Agnes Meredith Rice, Va.  
B.S. (Farmville State Teachers College), Romance Languages, English.
- Bonner, James Neel Due West, S. C.  
A.B. (Erskine College), A.M. (Columbia), Education.
- Booth, Ernest Eugene Erwin, Tenn.  
A.B. (Carson-Newman College), English.
- Boswell, Albert Sidney Brunswick, Ga.  
B.S. (South Georgia Teachers College), Education.
- Bowen, Hobert Brooks W. Milford, W. Va.  
A.B. (Salem College), Education.
- Bowers, Warren Brown Radford, Va.  
B.S. (Emory and Henry College), Zoology.
- Bowles, Robert Clay Macon, Mo.  
A.B. (Central College), A.M. (Southern Methodist), History, Economics.
- Bowman, Bernice Claire Miami, Fla.  
A.B. (Union College), Education, English.
- Boyer, Luther Karl Mt. Carmel, Pa.  
A.B. (Susquehanna), Education.
- Brabson, James Alexander Demorest, Ga.  
A.B. (Piedmont College), English.
- Brady, Mary Louise Vanderbilt, Pa.  
B.S. (California State Teachers College), Education.
- Bramlette, Nancy Lucile Greenville, S. C.  
A.B. (Winthrop College), English.
- Brandis, Roland Buford, Jr. Richmond, Va.  
A.B. (University of Richmond), History, Economics.
- Brandolini, Vincent Chestertown, Md.  
B.S. (Washington College), Education.
- Breslow, David Samuel Ozone Park, N. Y.  
B.S. (College of the City of New York), Chemistry.
- Brewster, James Pendleton Newnan, Ga.  
A.B. (Duke), Mathematics.
- Bridges, Daniel Moody Kings Mountain, N. C.  
A.B. (Wake Forest College), Education.
- Bridges, Mae Cowpens, S. C.  
A.B. (Limestone College), Sociology.
- Bridy, Charles Louis Mt. Carmel, Pa.  
A.B. (Mount St. Mary's College), History, Education.
- Bright, Robert Dietrich Passaic, N. J.  
A.B. (Dartmouth College), Chemistry.

- Brittle, Jarvis Vivian  
     B.S. (Wake Forest College), Education. Durham, N. C.  
 Brooks, Jessie Mae  
     A.B. (Meredith College), English, Education. Vass, N. C.  
 Brown, Dalton Milford  
     B.S., M.S. (University of Tennessee), Botany. Johnson City, Tenn.  
 Brown, George Erwin  
     A.B. (Piedmont College), Education, Sociology. Siloam, Ga.  
 Brown, Lillie Woodnut  
     A.B. (Bucknell), Education, History. Pitman, N. J.  
 Brown, Margaret Louise  
     A.B. (Queens-Chicora College), Education. Sumter, S. C.  
 Bruce, Imon Elba  
     A.B. (Henderson State Teachers College), A.M. (Louisiana State), Education. Fordyce, Ark.  
 Bruce, William Thornton  
     A.B. (Furman), Education. Greenville, S. C.  
 Brumfield, Dudley Copeland  
     B.S. (Millsaps College), Education. Durant, Miss.  
 Bryant, Anne  
     B.S. (East Tennessee State Teachers College), English. Johnson City, Tenn.  
 Bryant, Carlyle Rupert  
     A.B. (Furman), Education, English. Greenville, S. C.  
 Buck, Ida Hermine  
     A.B. (Catawba College), History, Education. Altoona, Pa.  
 Bullock, Edward Junius  
     A.B. (Duke), Education. Macon, N. C.  
 Burchett, Lorraine  
     B.S. (West Tennessee State Teachers College), Psychology, History. Memphis, Tenn.  
 Burdette, Alma McKinney  
     A.B. (West Virginia Wesleyan College), English. Beckley, W. Va.  
 Burdette, Orral Lorain  
     B.S. (New River State College), Education. Beckley, W. Va.  
 Burgess, Julia Hester  
     B.S. (Eastern Kentucky State Teachers College), Education. Louisa, Ky.  
 Burns, David Francisco  
     B.S. (University of Florida), Political Science. Havana, Fla.  
 Burr, Ruth Elizabeth  
     A.B. (Dickinson College), Education. Cocoa, Fla.  
 Burton, Anne Seixas MacGlashan  
     A.B. (Hollins College), English. Stoneville, N. C.  
 Burt, Everett Johnson, Jr.  
     A.B. (Berea College), A.M. (Duke), Economics. Jackson, Mich.  
 Bush, Kitty Blanche  
     A.B. (College of William and Mary), Education. Waynesboro, Va.  
 Bush, Marion  
     A.B. (Shorter College), A.M. (University of Georgia), English. Barnesville, Ga.  
 Bushyager, Ethel Marie  
     A.B. (Seton Hill College), Romance Languages. Harrison City, Pa.  
 Butler, Allen Dexter  
     A.B., A.M. (University of North Carolina), English. Liberty, N. C.  
 Butler, Altamont Zarco  
     A.B. (University of South Carolina), English. Loris, S. C.  
 Butler, Carrie Elizabeth  
     A.B. (Huntingdon College), Zoology. Montgomery, Ala.  
 Butler, Thelma Lorene  
     B.S. (Mississippi Delta State Teachers College), Economics, Education. Duncan, Miss.

Butt, Roger Neal B.S. (Emory and Henry College), Education.	Abingdon, Va.
Butts, Virginia Frye A.B. (West Virginia University), English.	Harper's Ferry, W. Va.
Byrd, Roy David A.B. (Glenville State Teachers College), Education.	Falling Rock, W. Va.
Byrnes, Lorraine Garfunkel B.S. (University of Miami), Education.	Miami, Fla.
Caldabaugh, Harry Rahr B.S. (West Virginia Wesleyan College), Education.	Keyser, W. Va.
Caldwell, Jonathan Quarmby A.B. (University of Florida), Education.	DeLand, Fla.
Caldwell, Nell Culverhouse A.B. (Birmingham-Southern College), Education.	Miami, Fla.
Calvin, Agnes Euphemia A.B. (Westminister College), French.	New Castle, Pa.
Camp, Maryella A.B. (Wesleyan College), English.	Newnan, Ga.
Campbell, Carrie Craig A.B. (Duke), French.	Washington, N. C.
Campbell, Carrie Smith A.B. (Marshall College), Education.	Kenova, W. Va.
Campbell, Edith B.S. (East Tennessee State Teachers College), Sociology, Education.	Johnson City, Tenn.
Campbell, Harry Modean A.B., A.M. (Southern Methodist University), English.	Terrell, Tex.
Campbell, John Wilson A.B. (Birmingham-Southern College), History.	Birmingham, Ala.
Campbell, Robert Earle A.B. (Marshall College), Economics.	Kessler's Cross Lanes, W. Va.
Campbell, Walter Hoodenpyl B.S. (Murfreesboro State Teachers College), Education, History.	Miami, Fla.
Carpenter, Alta Buane A.B. (Marshall College), English.	Wheeling, W. Va.
Carpenter, Nevette Hefner A.B. (Lenoir-Rhyne College), Education.	Hickory, N. C.
Carper, Doris Viola B.S. (Farmville State Teachers College), Education.	Norfolk, Va.
Carr, Heyward Alexander A.B. (Erskine College), Education.	Rock Hill, S. C.
Carruthers, Emily Lee A.B. (Juniata College), English.	Mount Union, Pa.
Carson, Erskine Wilbur A.B. (Erskine College), Education.	Statesville, N. C.
Carson, Mary John A.B. (Erskine College), Education.	Moreland, Ga.
Carson, Robert Brice A.B. (Erskine College), Education.	Moreland, Ga.
Carter, Maude A.B. (University of Georgia), History.	High Point, N. C.
Cassell, Hugh Kent B.S. (Mercer), Education.	Big Stone Gap, Va.
Casto, Margaret Atkinson A.B. (Marshall College), Mathematics.	Huntington, W. Va.
Cathcart, William Doty A.B. (University of South Carolina), Education.	Manning, S. C.

- Chambers, Evelyn Speer  
A.B. (Lander College), Romance Languages, English. Clemson, S. C.
- Chambers, Joseph Herbert  
A.B. (Concord State Teachers College), Education. Mabscott, W. Va.
- Chandler, Mary Candace  
A.B. (Meredith College), History. Durham, N. C.
- Chapman, Marvin Luther  
A.B. (Newberry College), Education. Anthony, Fla.
- Charlton, Harriet Virginia  
A.B. (Concord State Teachers College), English. Princeton, W. Va.
- Chatfield, Carolyn Lucinda  
B.S. (Union College), History. Pleasant View, Ky.
- Chauncey, Atha  
A.B. (Florida State College for Women), History. Mayo, Fla.
- Chester, William Asbury  
A.B. (Emory), History. Plains, Ga.
- Chisman, Margaret Sue  
A.B. (Vanderbilt), Education, English. Memphis, Tenn.
- Clardy, Katharine Carlisle  
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B.S. (Mississippi State College), Education, Botany. New Albany, Miss.
- Tyer, Lena Mae  
B.S. (Mississippi Delta State Teachers College), Education. Malvina, Miss.
- Tyler, Virginia Dale  
A.B. (Florida State College for Women), English. Pensacola, Fla.
- Tyler, Willoughby Bartlett  
B.S. (Virginia Polytechnic Institute), Mathematics. Blacksburg, Va.
- Tyson, Florence Josephine  
A.B. (Wilson College), English, Education. Oaklyn, N. J.
- Uhler, Katherine Maher  
Lic. ès Lettres (Sorbonne, Paris), Romance Languages. Louisburg, N. C.
- Urick, Stanley Paul  
B.S. (Slippery Rock State Teachers College), Education, Mathematics. Portage, Pa.
- Usrey, Nancy Emily  
A.B. (East Carolina Teachers College), Education. Chadbourn, N. C.
- Usry, John Bunyan  
A.B. (Wake Forest College), English. Oxford, N. C.
- Van Devander, Elizabeth Neff  
A.B. (Howard College), History. Pell City, Ala.
- Veatch, Mildred Ruth  
A.B. (Georgia State College for Women), History. Milledgeville, Ga.
- Vermillion, Gertrude  
A.B. (Greenville Woman's College of Furman University), B.S. (George Peabody College for Teachers), A.M. (Columbia), Chemistry. Tallahassee, Fla.
- Vernon, Margaret Anne  
A.B. (Seton Hill College), Mathematics. Connellsville, Pa.
- Vick, Giles Wesley, Jr.  
A.B. (Duke), Education. Statesville, N. C.
- Vinson, Raymond Augustus  
A.B. (University of Florida), Political Science, Education. S. Jacksonville, Fla.

Viser, Janis Marie	Greenville, S. C.
A.B. (Furman), English.	
Wagner, Carl Leon	Homestead, Fla.
A.B. (University of Miami), Education.	
Wagner, Horace McDonald	Mont Calm, W. Va.
A.B. (Concord State Teachers College), M.Ed. (Duke), Education.	
Waite, Alex	Winter Park, Fla.
A.B. (University of South Carolina), M.Ed. (Duke), Education.	
Walker, Lela Samantha	Saxton, Ky.
A.B. (University of Kentucky), English.	
Walkley, Emera Jeanette	Birmingham, Ala.
A.B. (Birmingham-Southern College), Education.	
Wall, Franklin Lafayette Brinsfield	Decatur, Ga.
A.B. (Oglethorpe), Education.	
Wall, Harriet Euphrasia	Macon, Ga.
A.B. (Mercer University), Mathematics.	
Wallace, Robert Hayes	Lockhart, S. C.
A.B. (Maryville College), Education.	
Wallin, Virginia Stanton	Wilmington, Del.
A.B. (University of Delaware), Education.	
Walsh, Anastasia	Charleston, S. C.
B.S. (College of Charleston), English.	
Walsh, Mary Katherine	Charleston, S. C.
B.S. (College of Charleston), English.	
Walston, Fred Ivan	Tarboro, N. C.
A.B. (Duke), Education.	
Walters, Eleanor Boyd	Gunnison, Miss.
B.S. (Delta State Teachers College), Mathematics, Education.	
Walther, Charlotte Elizabeth	E. Stroudsburg, Pa.
B.S. (East Stroudsburg State Teachers College), Political Science, History.	
Ward, Lillian Kiber	Montevallo, Ala.
A.B. (Alabama College), English.	
Ward, Vool, Jr.	Lorain, Ohio
B.S. (Kent State), A.M. (Ohio State), Sociology.	
Ware, James Edgar	Benevolence, Ga.
B.S. (South Georgia Teachers College), Education.	
Warren, Ida Leane	Spring Hope, N. C.
A.B. (Meredith College), Mathematics.	
Watkins, Clyde Fristoe	Fries, Va.
A.B. (University of Tennessee), Religion.	
Watson, Charlie Hugh	Cross Anchor, S. C.
A.B. (Wofford College), English.	
Watson, Florence Kathleen	Charleston, W. Va.
B.S. (Harrisonburg State Teachers College), English.	
Watson, Karl Brantley	Durham, N. C.
B.S., A.B. (University of Chattanooga), A.M. (Duke), Education.	
Watts, Daniel Thomas	Elon College, N. C.
A.B. (Elon College), Zoology.	
Watts, Violet	Eau Gallie, Fla.
B.S. (Florida State College for Women), Education.	
Weaver, Benjamin Rhoads	Columbia, Pa.
B.S. (Millersville State Teachers College), Education.	
Weaver, Mary Virginia	Asheville, N. C.
A.B. (Randolph-Macon Woman's College), Education.	
Webb, Agnes Cosden	Hartly, Del.
A.B. (Catawba College), Education.	

- Webb, Esta Abel  
A.B. (Western Kentucky State Teachers College), Romance Languages. Pembroke, Ky.
- Weeks, William Benn  
B.S. (Mansfield State Teachers College), Education. Westfield, Pa.
- Weidner, Stanley Leon  
B.S. (Shippensburg State Teachers College), History, Education. Gardners, Pa.
- Weir, John Blackwood, Jr.  
B.S. (West Chester State Teachers College), Education. Moosic, Pa.
- Weld, John Rowley  
B.S. (University of Maryland), Education. Sandy Spring, Md.
- Weller, Grace Harlowe  
A.B. (Maryville College), English. Canmer, Ky.
- Weller, Wayne  
A.B. (Western Kentucky State Teachers College), History, Education. Fort Knox, Ky.
- Wellman, Helen Louise  
A.B. (Rollins College), English. Winter Park, Fla.
- Wells, Lewis Arnold  
B.S. (Clarion State Teachers College), English, Education. Brockway, Pa.
- Wells, Ruby Virginia  
A.B. (Transylvania College), Education. Wellsburg, W. Va.
- Wertz, Roy Albert  
A.B. (Muhlenberg College), Education. Frackville, Pa.
- West, Evelyn Wells  
B.S. (Farmville State Teachers College), Education, Sociology. Lynchburg, Va.
- West, Harold Fane  
A.B. (Glenville State Teachers College), Education. Coal Fork, W. Va.
- West, Marie Elizabeth  
B.S. (John B. Stetson), Mathematics. De Land, Fla.
- West, Paul Eldred  
A.B. (Salem College), Education. W. Milford, W. Va.
- Westmoreland, Sloan  
A.B. (University of South Carolina), Education. Travelers Rest, S. C.
- Wetmore, Thomas Hall, Jr.  
A.B. (Lincoln Memorial), English. Little River, S. C.
- Wheeler, Louella  
A.B. (Mississippi State College for Women), Education, History. Love, Miss.
- Wharton, George Willard, Jr.  
B.S. (Duke), Zoology. Montclair, N. J.
- White, Frances Elizabeth  
B.S. (East Radford State Teachers College), English. Boykins, Va.
- White, William F.  
B.S. (Slippery Rock State Teachers College), Education. Springdale, Pa.
- White, Wilson Elmer  
B.S. (West Chester State Teachers College), Education. Westfield, Pa.
- Whitener, Catherine Viola  
A.B. (Catawba College), English. Salisbury, N. C.
- Whiteside, Hattie Sue  
A.B. (Carson-Newman College), English. Rutherfordton, N. C.
- Whitlatch, Lewis Wade  
B.S. (California State Teachers College), History. Monongahela, Pa.
- Whitman, William Tate  
A.B., A.M. (Duke), Economics. Charleston, S. C.
- Whitner, Elizabeth  
A.B. (Florida State College for Women), Education. Sanford, Fla.
- Whitten, Katharine  
A.B. (Lander College), Education, English. Pacolet, S. C.



Whyte, Veronica Margaret	McDonald, Pa.
B.S. (Indiana State Teachers College), Education, English.	
Wiggins, Elizabeth Lewis	Holly Hill, S. C.
A.B. (Winthrop College), English.	
Wilcox, Kathryn Johnson	Clearwater, Fla.
A.B. (John B. Stetson), Education, English.	
Wilcox, Sarah Elizabeth	Macon, Ga.
A.B. (Mercer), Education.	
Wilfong, Mildred Elizabeth	Tallahassee, Fla.
A.B. (Florida State College for Women), Romance Languages, Education.	
Willhite, Arthur Bolton	Elberton, Ga.
A.B. (Erskine College), Education.	
Wilkins, Lou	Clarksdale, Miss.
A.B. (University of Mississippi), Education.	
Williams, Curtis Fennel	Central, S. C.
A.B. (Erskine College), Education.	
Williams, Lillian Rae	Berea, Ky.
A.B. (Berea College), Religion.	
Williams, Margaret Lawrene	Memphis, Tenn.
B.S. (Memphis State Teachers College), Education, Psychology.	
Williams, Olan Yarnall	California, Pa.
B.S. (California State Teachers College), Education.	
Williams, Roger Augustus	Abbeville, S. C.
A.B. (Erskine College), History.	
Williams, Ruby Elkins	Man, W. Va.
A.B. (Morris Harvey College), History, Sociology.	
Williams, Sara Jane	Floyd, Va.
A.B. (Berea College), Romance Languages, Education.	
Williams, Thomas Ralph	Man, W. Va.
A.B. (Morris Harvey College), History, Sociology.	
Willis, Margaret Carter	New Bern, N. C.
A.B. (East Carolina Teachers College), Education.	
Willis, Margaret Ellen	Jacksonville, Fla.
B.S. (Florida State College for Women), Education.	
Willis, Mary Frances	Jacksonville, Fla.
A.B. (Florida State College for Women), Education.	
Willoughby, James Sidney	Bristol, Tenn.
B.S. (King College), Education.	
Wilson, Bertha Harvie	Yanceyville, N. C.
B.S. (Appalachian State Teachers College), Education.	
Wilson, Elizabeth Andrews	Tampa, Fla.
A.B. (Florida State College for Women), History.	
Wilson, Frances Louise	Miami, Fla.
A.B. (University of Miami), Education.	
Wilson, Graves Humbert	Anderson, S. C.
A.B., B.S. (Furman), A.M. (Duke), English.	
Wilson, Harold Gerald	Greenville, Fla.
B.S. (University of Florida), Education.	
Wilson, Joseph Bobula	Central City, Pa.
B.S. (Juniata College), History, Education.	
Wilson, Viola	Mountain City, Tenn.
B.S. (East Tennessee State Teachers College), Education.	
Wilson, Virginia Ellen	Waynesburg, Pa.
B.S. (Waynesburg College), Education.	
Wimberly, Rosamonde Ramsey	Spartanburg, S. C.
A.B., A.M. (University of South Carolina), Sociology.	

- Wineman, Margaret Kathleen  
A.B. (Bucknell), English. Fannettsburg, Pa.
- Winter, Lillie Smith  
A.B. (Bessie Tift College), Education. Blythe, Ga.
- Wise, Sara Wood  
A.B. (Landor College), Romance Languages. Greenwood, S. C.
- Wolfe, Quentin Donald  
B.S. (Lock Haven State Teachers College), Education. Pittsfield, Pa.
- Wollet, Charles Elmer  
A.B. (Newberry College), Education. Statesboro, Ga.
- Wonder, Craig Earl  
A.B. (Juniata College), Romance Languages. Martinsburg, Pa.
- Wood, Catherine Ball  
A.B. (Randolph-Macon Woman's College), English. Pulaski, Va.
- Woodcock, Ruth  
A.B. (High Point College), English. Charlotte, N. C.
- Woodruff, Margaret  
B.S. (East Tennessee State Teachers College), Education. Johnson City, Tenn.
- Worley, Claude  
A.B. (Concord State Teachers College), Education. Surveyor, W. Va.
- Wright, Aubrey Adele  
B.S. (University of Louisville), Education. Louisville, Ky.
- Wylie, Claude  
A.B. (Concord State Teachers College), Education. Gap Mills, W. Va.
- Wyly, Anne Ethel  
A.B. (Louisiana Polytechnic Institute), Education, English. Lake Providence, La.
- Wynn, Lawrence  
A.B. (Emory), English. Milledgeville, Ga.
- Yager, Charles Monroe  
B.S. (University of Maryland), Education, Mathematics. Baltimore, Md.
- Yarbrough, Thelma Sue  
B.S. (Mississippi Delta State Teachers College), Education. Louisville, Miss.
- Young, Denver Rockford  
B.S. (Denison), Education. Dayton, Ohio
- Young, DeWalt Secrist  
A.B. (Cornell), A.M. (Duke), Chemistry. Lisbon, Iowa
- Young, Hobart McKinley  
A.B. (Concord State Teachers College), Education, Mathematics. Bluefield, W. Va.
- Young, Mabel Dorothy  
A.B. (Geneva College), English, Education. Ellwood City, Pa.
- Young, Mary Alice  
B.S. (Farmville State Teachers College), Romance Languages. Baskerville, Va.
- Young, Valla Evelyn  
A.B. (Western Kentucky State Teachers College), English, History. Newport, Ky.
- Young, William Alson  
B.S. (Muhlenberg College), Education. Coopersburg, Pa.
- Young, William Coleman  
A.B. (College of Charleston), Political Science. Georgetown, S. C.
- Young, William Vincent  
B.S. (West Chester State Teachers College), Education. Swoyerville, Pa.
- Yowell, Robert Burgess  
B.A. (Virginia Military Institute), Economics. Durham, N. C.
- Zarfoss, Lewis Harold  
B.S. (Millersville State Teachers College), Education. Columbia, Pa.
- Zimmerman, Carroll Louis  
A.B. (Miami), A.M. (Duke), Mathematics, Physics. Walla Walla, Wash.

Zipplies, Margaret Roberta Savannah, Ga.  
 A.B. (Georgia State Woman's College), Zoology.

# SUMMER OF 1938; SECOND TERM

Alexander, Ellen	Mountville, S. C.
A.B. (Winthrop College), History.	
Allgood, Catharine	Liberty, S. C.
A.B. (Winthrop College), Education.	
Anderson, Ernest Rogers	Matthews, Ga.
B.S. (South Georgia Teachers College), Education.	
Artrip, Elizabeth Regal	Keystone, W. Va.
B.S. (East Radford State Teachers College), Economics.	
Atkinson, Frederic Rowell	Mullins, S. C.
A.B. (Wofford College), English.	
Autry, Randall Franklin	Godwin, N. C.
A.B. (University of North Carolina), English.	
Ayers, Archie Raymond	Calhoun Falls, S. C.
B.S. (University of South Carolina), Mathematics.	
Barber, Daniel Clyde, Jr.	Clio, S. C.
A.B. (The Citadel), Education, History.	
Barber, Veva Alberta	Orrick, Mo.
B.S. (Central Missouri State Teachers College), English.	
Barr, Leon Vincent	Westport, Pa.
B.S. (Lock Haven State Teachers College), Mathematics, Education.	
Barrett, Arnold Lankford	Social Circle, Ga.
A.B. (University of Georgia), Education.	
Baxter, Joseph Ray	Camp Dix, Ky.
A.B. (Berea College), Education, History.	
Beard, Mary Julia	Jacksonville, Ala.
B.S. (Jacksonville State Teachers College), Education.	
Beebee, Ruth Gertrude	Kenmore, N. Y.
B.S. (Buffalo State Teachers College), English.	
Becker, Henry Judson	Green Sea, S. C.
B.S. (Appalachian State Teachers College), History.	
Berry, Christine Brooks	Jackson, Miss.
B.S. (Mississippi State College for Women), Education, Economics.	
Best, Albert Hartwell, Jr.	Durham, N. C.
A.B. (Wofford College), Education.	
Biggerstaff, Frank Malcolm	Forest City, N. C.
A.B. (Duke), Education, Economics.	
Binns, Elizabeth Feary	Winter Haven, Fla.
A.B. (Florida Southern College), Education.	
Blackburn, Ethel Lee	Springfield, Tenn.
B.S. (Murfreesboro State Teachers College), Education.	
Blair, Ruth Lavonne	Boone, N. C.
B.S. (Appalachian State Teachers College), Religion, Education.	
Bloom, Robert Louis	Tyrone, Pa.
B.S. (Shippensburg State Teachers College), History.	
Boland, Joseph Bethro	Iaeger, W. Va.
A.B. (Marshall College), Education.	
Bond, Esther May	Sarasota, Fla.
B.S., M.S. (Florida State College for Women), Mathematics, Psychology.	
Bondurant, Agnes Meredith	Rice, Va.
B.S. (Farmville State Teachers College), Romance Languages, English.	

- Booth, Ernest Eugene  
A.B. (Carson-Newman College), English. Erwin, Tenn.
- Bowers, Warren Brown  
B.S. (Emory and Henry College), Zoology. Radford, Va.
- Bowles, Robert Clay  
A.B. (Central College), A.M. (Southern Methodist), Economics, History. Macon, Mo.
- Bowman, Bernice Claire  
A.B. (Union College), English. Miami, Fla.
- Bragg, Jessie Nicholson  
B.S. (University of Miami), Education. Miami, Fla.
- Brandolini, Vincent  
B.S. (Washington College), Education. Chestertown, Md.
- Brawley, Harry Morgan  
A.B., A.M. (West Virginia), Education. Charleston, W. Va.
- Brewster, James Pendleton  
A.B. (Duke), Education, Mathematics. Newnan, Ga.
- Brothers, Joseph Grayson  
A.B. (Duke), Political Science. Wilmington, N. C.
- Brown, Dalton Milford  
B.S., M.S. (University of Tennessee), Botany. Johnson City, Tenn.
- Brown, Margaret Louise  
A.B. (Queens-Chicora College), Education. Sumter, S. C.
- Bruce, William Thornton  
A.B. (Furman), Education, Sociology. Greenville, S. C.
- Bryan, Colgan Hobson  
B.S. (University of South Carolina), Education. Trenton, S. C.
- Bryant, Anne  
B.S. (Murfreesboro State Teachers College), English. Johnson City, Tenn.
- Bryant, Carlyle Rupert  
A.B. (Furman), Education. Greenville, S. C.
- Buck, Ida Hermine  
A.B. (Catawba College), Education. Altoona, Pa.
- Burdette, Alma McKinney  
A.B. (West Virginia Wesleyan College), English. Beckley, W. Va.
- Burdette, Orral Lorain  
B.S. (New River State Teachers College), Education. Beckley, W. Va.
- Burgess, John Evans  
A.B. (Emory), Education. Ashburn, Ga.
- Burghart, Clara Bertha  
A.B. (Colorado College), B.S. (Columbia), Education. Colorado Springs, Colo.
- Burkhardt, William Emory  
A.B. (Washington College), Education. Rehoboth Beach, Del.
- Burns, David Francisco  
B.S. (University of Florida), Education. Havana, Fla.
- Burt, Everett Johnson, Jr.  
A.B. (Berea College), A.M. (Duke), Political Science. Jackson, Mich.
- Bussell, Wilsie Florence  
A.B. (Duke), Romance Languages. Durham, N. C.
- Butler, Carrie Elizabeth  
A.B. (Huntingdon College), Zoology. Montgomery, Ala.
- Butt, Roger Neal  
B.S. (Emory and Henry College), Mathematics. Abingdon, Va.
- Butts, Virginia Frye  
A.B. (West Virginia), English. Harper's Ferry, W. Va.
- Byrd, Roy David  
A.B. (Glenville State Teachers College), Education. Falling Rock, W. Va.

Caldabaugh, Harry Rahr	Wheeling, W. Va.
B.S. (West Virginia Wesleyan College), Education.	
Caldwell, Jonathan Quarmby	Homestead, Fla.
A.B. (University of Florida), Education.	
Calvert, Henry Woodrow	Rock Hill, S. C.
B.S. (University of South Carolina), Psychology.	
Campbell, Harry Modean	Electra, Tex.
A.B., A.M. (Southern Methodist), English.	
Campbell, John Wilson	Birmingham, Ala.
A.B. (Birmingham-Southern College), History.	
Campbell, Robert Earle	Kessler's Cross Lanes, W.
A.B. (Marshall College), Education.	Va.
Carpenter, Nevette Hefner	Hickory, N. C.
A.B. (Lenoir-Rhyne College), Education.	
Carper, Doris Viola	Norfolk, Va.
B.S. (Farmville State Teachers College), Psychology, Education.	
Carson, Robert Brice	Moreland, Ga.
A.B. (Erskine College), Education.	
Carter, Maude	High Point, N. C.
A.B. (University of Georgia), English.	
Cassell, Hugh Kent	Big Stone Gap, Va.
B.S. (Mercer), Education.	
Casto, Margaret Atkinson	Huntington, W. Va.
A.B. (Marshall College), Education.	
Caughey, Mary Gladys	Chester, W. Va.
B.S. (Geneva College), A.M. (Columbia), Botany.	
Charlton, Harriet Virginia	Princeton, W. Va.
A.B. (Concord State Teachers College), English.	
Chester, William Asbury	Plains, Ga.
A.B. (Emory), Political Science.	
Chisman, Margaret Sue	Memphis, Tenn.
A.B. (Vanderbilt), English.	
Cleveland, Vela Howell	Fort Meade, Fla.
A.B. (University of Kentucky), Zoology.	
Coakley, Eileen Elizabeth	Bogalusa, La.
A.B. (Indiana), Sociology, Psychology.	
Cole, Elfrieda Louise	Greer, S. C.
A.B. (Winthrop College), English.	
Condron, Clara Mae	Braddock, Pa.
A.B. (Pennsylvania College for Women), History.	
Cook, Louise	Fitzgerald, Ga.
B.A. (Wesleyan College), History.	
Cooper, Frances Harlee	Spartanburg, S. C.
A.B. (Carson-Newman College), History.	
Copeland, Lewis Campbell	Houston, Tex.
A.B. (Texas Christian), A.M. (University of Chicago), Sociology.	
Copple, George Ellis	Albemarle, N. C.
A.B. (Wake Forest College), A.M. (University of Alabama), English.	
Cornette, Thelma	Greenville, Ky.
A.B. (Western Kentucky State Teachers College), Education.	
Corritore, Carmella Rita	Buffalo, N. Y.
B.S. (Buffalo State Teachers College), English.	
Cotton, Christine	Greenville, Ky.
A.B. (Western Kentucky State Teachers College), Education.	
Countiss, Arthur Allen	Abingdon, Va.
A.B. (Emory and Henry College), Education.	-

- Cox, Margaret Blanche  
A.B. (Judson College), Zoology. Selma, Ala.
- Craig, Vivia  
A.B. (Florida State College for Women), Education. Mount Dora, Fla.
- Crenshaw, Grace Virginia  
A.B. (Emory and Henry College), A.M. (University of Virginia), Mathematics. Abingdon, Va.
- Crockett, Cora Mae  
B.S. (East Tennessee State Teachers College), Education. Johnson City, Tenn.
- Curington, Orrel Vivian  
A.B. (Piedmont College), Education. Plant City, Fla.
- Daniel, Helen Garrett  
A.B. (Duke), Romance Languages. Warrenton, N. C.
- Davidson, Mary Frances  
B.S. (West Virginia), Education. Middlesboro, Ky.
- Davis, Don Albert  
B.S. (Shippensburg State Teachers College), Education. Williamstown, Pa.
- Davis, Mary Eloise  
A.B. (Florida State College for Women), Education. Sasser, Ga.
- Davis, Mary Ophelia  
B.S. (Furman), Education. Westminster, S. C.
- Davis, Sara Elizabeth  
B.S. (Furman), Education. Westminster, S. C.
- Dean, Lillian Alberta  
B.S. (Mississippi Delta State Teachers College), Education, History. Cleveland, Miss.
- Dickinson, Elmer Gartin  
A.B. (Morris Harvey College), History. Delbarton, W. Va.
- Dickinson, Vivian Sansom  
B.S. (Morris Harvey College), Education. Delbarton, W. Va.
- Dickson, Robert Jerome  
A.B. (Arizona State Teachers College), Botany. Hamburg, N. Y.
- Dillard, Kathryn  
B.S. (George Peabody College for Teachers), English. Six Mile, S. C.
- Douglas, Jessie Owen  
A.B. (Winthrop College), Education. Winnsboro, S. C.
- Doyle, Meryl Daniel  
A.B. (Carroll College), Education. Oconto, Wis.
- Dozier, Louise Agnes  
A.B. (Georgia State Teachers College), Education. Thomson, Ga.
- Dozier, Vernon Elliott  
A.B. (Mercer), Education. Bartow, Fla.
- Du Bose, Charles Gerald  
A.B. (Wofford College), Education. Bishopville, S. C.
- Duke, Mary Catherine  
A.B. (Shepherd State Teachers College), Political Science, History. Bakerton, W. Va.
- DuPre, Fannie Josette  
A.B. (Lander College), Education. Abbeville, S. C.
- Dupree, John Louis  
B.S. (Wake Forest College), Education. Kannapolis, N. C.
- Durden, George Douglas  
B.S. (South Georgia Teachers College), English. Columbus, Ga.
- Durrance, Samuel Parke, Jr.  
A.B. (Harding College), Romance Languages. Eagle Lake, Fla.
- Early, William Ashby  
A.B. (Emory and Henry College), Education. La Crosse, Va.
- Echerd, Eugenia Mae  
A.B. (Lenoir-Rhyne College), Psychology. Taylorsville, N. C.



Edwards, Allen Braxton A.B. (Centre College), History, Economics.	Danville, Ky.
Edwards, Samuel Reese B.S. (Mansfield State Teachers College), Education.	Wanamie, Pa.
Eidson, William Patton A.B. (Morehead State Teachers College), Education, Political Science.	Ashland, Ky.
Engle, Mary Margaret A.B. (Berea College), Political Science.	Berea, Ky.
Evans, Beverly Daniel, IV A.B. (Mercer), History.	Sanderville, Ga.
Feinstein, Paul Sidney B.S. (Eastern Kentucky Teachers College), History.	Corbin, Ky.
Fennell, Donald Thomas A.B. (Florida Southern College), English.	Bartow, Fla.
Fielder, Margaret Frances B.S. (Harrisonburg State Teachers College), Education.	Charleston, W. Va.
Fish, Virginia Pauline B.O.E. (Syracuse), Education, English.	Brooklyn, Pa.
Fitzgerald, Mary Frances A.B. (Woman's College of the University of North Carolina), Psychology.	Lexington, N. C.
Fletcher, Mildred Jane B.S. (Florida State College for Women), Economics.	Williston, Fla.
Folger, Ruth Marinda A.B. (Georgia State Woman's College), Education.	Savannah, Ga.
Ford, Edith Goodwin A.B. (George Washington), M.A. (University of Kentucky), Economics.	Richmond, Ky.
Fort, Willena A.B. (Georgia State College for Women), English.	North, S. C.
Frank, Letitia Morehouse A.B. (Winthrop College), Romance Languages.	Adams Run, S. C.
Frazier, Kaye Ogilvie B.S. (University of Miami), English.	Miami, Fla.
Gaines, Marvin Wilson A.B. (Emory), History.	Grantville, Ga.
Galphin, Annie Louise A.B. (Winthrop College), Education.	Holly Hill, S. C.
Garrett, Anna Gladys A.B. (Winthrop College), Mathematics.	Belton, S. C.
Garrett, Harold Ray A.B., B.S. (Salem College), Education.	Harrisville, W. Va.
Garrett, William Silas A.B. (Huntingdon College), Education.	Hope Hull, Ala.
Gentry, John Baker, Jr. B.S. (Furman), Education.	Leesville, S. C.
George, Charles William B.S. (Ursinus College), Physics, Mathematics.	Shenandoah, Pa.
Gerow, James Anthony B.S. (North Carolina State College), Education.	Raleigh, N. C.
Gervin, Spencer Rex B.S. (East Tennessee State Teachers College), History, Political Science.	Johnson City, Tenn.
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Snuggs, Robert Marvin, Jr. B.S. (University of Alabama), Education.	Hartford, Ala.
Snyder, Anna Jane A.B. (Juniata College), English.	Huntingdon, Pa.
Soverns, James William B.S. (California State Teachers College), Education.	Dickerson Run, Pa.
Sparks, Marye Remelle A.B. (Athens College), English.	Spruce Pine, Ala.
Spencer, Dale Kirk A.B. (Davidson College), Education, Psychology.	Grassy Creek, N. C.
Starr, Virginia Henderson A.B. (Mississippi State College for Women), English, History.	Sledge, Miss.
Stauffer, Russell George B.S. (Kutztown State Teachers College), Education.	Topton, Pa.
Steele, Andrew Jackson B.S. (Emory and Henry College), Education.	Emory, Va.
Steelman, Max Randolph A.B. (Lenoir-Rhyne College), Education.	Hickory, N. C.
Stephenson, Abram Clements A.B. (Elon College), Mathematics, Education.	Red Springs, N. C.
Sterling, Susan Elizabeth B.S. (New York), Education, English.	Roselle, N. J.
Still, Evedon Howell A.B. (Furman), Education.	Abbeville, S. C.
Stone, Jake Ward A.B. (Lynchburg College), Education.	Simpsons, Va.
Stonestreet, Doris Craig B.S. (Mississippi State Teachers College), Education.	Jackson, Miss.
Strickland, Cecil Calvert A.B. (Glennville State Teachers College), M.S. (West Virginia), Botany.	Clendenin, W. Va.
Sturm, Albert Lee, Jr. A.B. (Hampden-Sydney College), Political Science.	Appalachia, Va.
Styer, Mildred Miller A.B. (Bucknell), Mathematics.	Kennett Square, Pa.
Sullivan, Iris B.S. (Buffalo State Teachers College), Education.	Buffalo, N. Y.
Summers, George Boyd A.B. (Newberry College), Education, Economics.	Oxford, N. C.
Swearingen, Mildred Emily A.B. (Oberlin College), Education.	Eagle Lake, Fla.
Tanner, Martha Malinda A.B. (Winthrop College), Zoology.	Chesnee, S. C.
Taylor, Doris Lavenia B.S. (Mary Washington College), Education.	Pocomoke City, Md.
Taylor, Jasper Rhoad A.B. (Lincoln Memorial), History, Education.	Lancaster, S. C.
Teagarden, Lucetta Jane A.B. (Wilson College), English.	Carmichaels, Pa.
Terry, Charles Edwin, Jr. B.S. (University of Florida), Education.	Winter Park, Fla.
Thomas, David Boyd B.S., M.S. (North Carolina State College), Physics.	Gibsonville, N. C.
Thompson, Ethel Mae A.B. (Geneva College), Education.	New Brighton, Pa.

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| Thompson, Lucille Zellma<br>A.B. (Berea College), English.                                     | Chattaroy, W. Va.     |
| Tidler, Hazel<br>A.B. (West Virginia), English.  | Clarksburg, W. Va.    |
| Tolbert, Nancy Undine<br>B.S. (Converse College), Mathematics.                                 | Spartanburg, S. C.    |
| Tollison, Roy Norwood<br>A.B. (Wofford College), Education.                                    | Piedmont, S. C.       |
| Townsend, Harley Vance<br>B.S. (Morris Harvey College), Zoology.                               | Barboursville, W. Va. |
| Trewhitt, Katharine Alice Lowry<br>A.B. (University of Chattanooga), English.                  | Cleveland, Tenn.      |
| Trimble, William Ellwood<br>B.S. (West Chester State Teachers College), Education, Sociology.  | Asbury, N. J.         |
| Turner, Robert Love<br>A.B. (Marshall College), Education.                                     | Lex, W. Va.           |
| Tyler, Virginia Dale<br>A.B. (Florida State College for Women), English.                       | Pensacola, Fla.       |
| Tyler, Willoughby Bartlett<br>B.S. (Virginia Polytechnic Institute), Mathematics.              | Blacksburg, Va.       |
| Usrey, Nancy Emily<br>A.B. (East Carolina Teachers College), Education.                        | Chadbourn, N. C.      |
| Van Devander, Elizabeth Neff<br>A.B. (Howard College), History.                                | Pell City, Ala.       |
| Vick, Giles Wesley, Jr.<br>A.B. (Duke), Education.   | Statesville, N. C.    |
| Vinson, Raymond Augustus<br>A.B. (University of Florida), Education.                           | S. Jacksonville, Fla. |
| Waite, Alex<br>A.B. (University of South Carolina), M.Ed. (Duke), Education.                   | Winter Park, Fla.     |
| Walker, Ermine<br>A.B., A.M. (University of Alabama), History.                                 | Montgomery, Ala.      |
| Walker, Lela Samantha<br>A.B. (University of Kentucky), English.                               | Saxton, Ky.           |
| Wall, Franklin Lafayette Brinsfield<br>A.B. (Oglethorpe), Education.                           | Decatur, Ga.          |
| Wall, Harriet Euphrasia<br>A.B. (Mercer), Education.   | Macon, Ga.            |
| Wall, Marjorie Lemmond<br>A.B. (Converse College), English.                                    | Spartanburg, S. C.    |
| Warren, Ida Leane<br>A.B. (Meredith College), Mathematics.                                     | Spring Hope, N. C.    |
| Watson, Karl Brantley, Jr.<br>B.S., A.B. (University of Chattanooga), A.M. (Duke), Education.  | Durham, N. C.         |
| Watts, Claudius Elmer, Jr.<br>A.B. (The Citadel), History.                                     | Bennettsville, S. C.  |
| Watts, Daniel Thomas<br>A.B. (Elon College), Zoology.  | Elon College, N. C.   |
| Webb, Esta Abel<br>A.B. (Western Kentucky State Teachers College), Romance Languages, English. | Pembroke, Ky.         |
| Weld, John Rowley<br>B.S. (University of Maryland), Education.                                 | Sandy Spring, Md.     |
| Weller, Wayne<br>A.B. (Western Kentucky State Teachers College), Education.                    | Fort Knox, Ky.        |
| Wellman, Helen Louise<br>A.B. (Rollins College), English.                                      | Winter Park, Fla.     |



- Wells, Lewis Arnold  
B.S. (Clarion State Teachers College), Education, English. Brockway, Pa.
- Wert, Roy Albert  
A.B. (Muhlenberg College), Education. Frackville, Pa.
- Wharton, George Willard, Jr.  
B.S. (Duke), Zoology. Montclair, N. J.
- Whitener, Catherine Viola  
A.B. (Catawba College), English. Salisbury, N. C.
- Whiting, Sara Maysel  
A.B. (Glenville State Teachers College), Education, Sociology. Spencer, W. Va.
- Whitlatch, Lewis Wade  
B.S. (California State Teachers College), History. Monongahela, Pa.
- Whitner, Elizabeth  
A.B. (Florida State College for Women), Education. Sanford, Fla.
- Whitney, Alice Mary  
A.B. (Keuka College), Romance Languages. Cuyler, N. Y.
- Wiegand, Oscar William  
B.S. (Glassboro State Teachers College), Political Science, Education. Branchville, N. J.
- Wilfong, Mildred Elizabeth  
A.B. (Florida State College for Women), Education. Tallahassee, Fla.
- Williams, Curtis Fennel  
A.B. (Erskine College), Education. Central, S. C.
- Williams, Elizabeth Rose  
A.B. (Erskine College), English. Iva, S. C.
- Williams, Margaret Lawrence  
B.S. (Memphis State Teachers College), Education, Psychology. Memphis, Tenn.
- Williams, Roger Augustus  
A.B. (Erskine College), Education. Abbeville, S. C.
- Williams, Virginia Rowe  
A.B. (Concord State Teachers College), English. Athens, W. Va.
- Willis, Margaret Ellen  
B.S. (Florida State College for Women), Education. Jacksonville, Fla.
- Willis, Mary Frances  
A.B. (Florida State College for Women), Education. Jacksonville, Fla.
- Wilson, Bertha Harvie  
B.S. (Appalachian State Teachers College), Education. Yanceyville, N. C.
- Wilson, Frances Louise  
A.B. (University of Miami), Education. Miami, Fla.
- Wilson, Graves Humbert  
A.B., B.S. (Furman), A.M. (Duke), English. Anderson, S. C.
- Wilson, Joseph Bobula  
B.S. (Juniata College), Education. Central City, Pa.
- Wolling, Ruth Morrison  
A.B., B.M. (Queens-Chicora College), Education. McColl, S. C.
- Worley, Claude  
A.B. (Concord State Teachers College), Education. Surveyor, W. Va.
- Wylie, Claude  
A.B. (Concord State Teachers College), Education. Gap Mills, W. Va.
- Wyly, Anne Ethel  
A.B. (Louisiana Polytechnic Institute), Education. Lake Providence, La.
- Wynn, Lawrence  
A.B. (Emory), English. Milledgeville, Ga.
- Yates, Edison Eugene  
A.B. (Mercer), Education. Sandersville, Ga.
- Yost, Merrill Clifford  
B.S. (Gettysburg College), Education, Psychology. Tamaqua, Pa.

Young, De Walt Secrist	Lisbon, Iowa
A.B. (Cornell), A.M. (Duke), Chemistry.	
Young, Hobart McKinley	Bluefield, W. Va.
A.B. (Concord State Teachers College), Education, Mathematics.	
Young, Mabel Dorothy	Ellwood City, Pa.
A.B. (Geneva College), Education.	
Young, Philip Harry	Chambersburg, Pa.
B.S. (Shippensburg State Teachers College), Education.	
Young, Valla Evelyn	Newport, Ky.
A.B. (Western Kentucky State Teachers College), English.	
Young, William Alson	Coopersburg, Pa.
B.S. (Muhlenberg College), Education.	
Young, William Vincent	Swoyerville, Pa.
B.S. (West Chester State Teachers College), Zoology.	
Zarfoss, Lewis Harold	Columbia, Pa.
B.S. (Millersville State Teachers College), Education, Economics.	
Zimmerman, Carroll Louis	Walla Walla, Wash.
A.B. (Miami), A.M. (Duke), Physics.	
Zipplies, Margaret Roberta	Savannah, Ga.
A.B. (Georgia State Woman's College), Zoology.	

### JUNALUSKA SUMMER SCHOOL, 1938

Haliburton, Hilda Smathers	Clyde, N. C.
B.S. (Asheville Normal and Teachers College), Botany.	
James, Orville Cleaveland	Waynesville, N. C.
B.S. (Carson-Newman College), Botany.	
Pew, Shelba Glenn	Ona, W. Va.
A.B. (Marshall College), Botany.	
Quarterman, Elsie	Ray City, Ga.
A.B. (Georgia State Woman's College), Botany.	
Rogers, Mildred Lois	Clyde, N. C.
A.B. (Woman's College of the University of North Carolina), Botany.	
Smathers, Helen Lucile	Clyde, N. C.
B.S. (Western Carolina Teachers College), Botany.	
Williams, Ruby Melinda	Reidsville, N. C.
A.B. (Greensboro College), Botany.	

### BEAUFORT MARINE LABORATORY, 1938; FIRST TERM

Bridges, John Light	Unadilla, Ga.
B.S. (South Georgia Teachers College), Zoology.	
Humm, Harold Judson	Miami, Fla.
B.S. (University of Miami), Botany.	
Kramer, Charles Wilson	Miami, Fla.
B.S. (University of Miami), Botany.	
McCrary, Otho Elmer	Ellisville, Miss.
A.B. (Mississippi College), Zoology.	
Singletary, Mary Leora	Kissimmee, Fla.
B.S. (Florida State College for Women), Botany.	
Smal, Dean A.	Oil City, Pa.
B.S. (Clarion State Teachers College), Zoology.	
Strickland, Cecil Calvert	Clendenin, W. Va.
A.B. (Glenville State Teachers College), Botany.	
Williams, Louis Gressett	Milton, W. Va.
A.B. (Marshall College), Botany.	

Wolf, Mary Hubbard	Durham, N. C.
A.B. (Mount Holyoke College), Zoology.	
Worley, William Carson	Jacobus, Pa.
A.B. (Gettysburg College), Zoology.	

# BEAUFORT MARINE LABORATORY, 1938; SECOND TERM

Finster, Ethel B.	Asheville, N. C.
A.B. (Ball State Teachers College), Zoology.	
McCrary, Otho Elmer	Ellisville, Miss.
A.B. (Mississippi College), Zoology.	
Norton, Oswald Ailsworth	Deltaville, Va.
A.B. (Marshall College), Zoology.	

# THE SCHOOL OF LAW

## FIRST YEAR

Anderson, William Kimbrough	Kent, Ohio
B.S., Kent State University, 1936.	
Arst, Norton Jerome	Drew, Miss.
A.B., Louisiana State University, 1938.	
Ault, William Reign	Doylestown, Ohio
B.S., A.B., Kent State University, 1938.	
Barkman, Francis Elwood	Cumberland, Md.
A.B., St. John's College, 1938.	
Bragg, Harold Hoffman	Dodge City, Kansas
A.B., Baker University, 1938.	
Carr, Aute Lee	Grover Hill, Ohio
A.B., Butler University, 1938.	
Coopridge, Virgil Wayne	Pawhuska, Okla.
A.B., Kansas State Teachers College, 1938.	
Eakin, LeRoy, Jr.	Washington, D. C.
A.B., Duke University, 1938.	
Edwards, Fred Charles	Bloomsburg, Pa.
A.B., Duke University, 1938.	
Fischer, Charles Henry, Jr.	West Haven, Conn.
A.B., Duke University, 1938.	
Frampton, George Thomas	Scarsdale, N. Y.
A.B., Duke University, 1938.	
Gordon, Eugene Andrew	Brown Summit, N. C.
Elon College, 1935-37; Duke University, 1937-38.	
Graham, Champ Albert	Wellsville, Kansas
A.B., Baker University, 1936.	
Greenwald, Arthur Allen	Huntington, N. Y.
A.B., Elon College, 1938.	
Hambrick, Jackson Reid	Spartanburg, S. C.
A.B., Wofford College, 1938.	
Hoffman, Charles Robert	Easton, Pa.
A.B., Duke University, 1938.	
Horack, Benjamin Shambaugh	Durham, N. C.
Duke University, 1935-38.	
Kaufman, Howell Boucher	Timonium, Md.
B.S., Johns Hopkins University, 1938.	
Kerr, Ben Ransom	Murfreesboro, Tenn.
Middle Tennessee State Teachers College, 1935-36; Duke University, 1936-38.	

- Kimbrell, William Clarence  
 B.A., Washington and Lee University, 1932.
- Leavenworth, Robert Wing  
 A.B., Duke University, 1938.
- Lenox, Walter Stanley  
 A.B., Duke University, 1938.
- Lipscomb, Woodrow Pershing  
 A.B., Duke University, 1938.
- Little, James Crawford  
 A.B., Duke University, 1938.
- McCormack, Edward Joseph  
 A.B., University of Newark, 1935; B.S., Rutgers University, 1937.
- Mack, Edwin Van Tuyl  
 A.B., Duke University, 1938.
- Malone, William Frank  
 A.B., Western Maryland College, 1938.
- Marshall, Archibald George  
 Duke University, 1935-38.
- Mattocks, James Richardson  
 A.B., High Point College, 1938.
- Mims, Frank Meyer  
 B.A., The University of New Mexico, 1938.
- Moore, Hervey Studdiford, Jr.  
 Duke University, 1935-38.
- Moran, John William  
 A.B., Lenoir-Rhyne College, 1938.
- Phelps, Calhoun William James  
 A.B., University of Illinois, 1938.
- Rebman, Andrew Frederick, III  
 A.B., Duke University, 1938.
- Sawyer, Thomas B.  
 A.B., Duke University, 1938.
- Sink, Henry Harrison  
 Duke University, 1935-38.
- Skarda, Lynell Griffith  
 B.S., University of California, 1937.
- Smith, Louis Van  
 A.B., High Point College, 1938.
- Smith, Numa Lamar, Jr.  
 B.A., Furman University, 1938.
- Stack, Warren Carlisle  
 Duke University, 1934-38.
- Tinsley, James Jones  
 A.B., Wofford College, 1938.
- Vitiello, Joseph Thomas  
 A.B., University of North Carolina, 1938.
- Watson, William Harry, Jr.  
 A.B., Dartmouth College, 1938.
- Wherrett, Norman Lewis  
 A.B., Duke University, 1938.
- White, Leland James  
 B.S., College of Charleston, 1938.
- Williams, Berry Collins  
 A.B., Duke University, 1938.
- Williams, Bill Justin  
 A.B., Duke University, 1938.
- Charlotte, N. C.
- New Haven, Conn.
- Ridgefield Park, N. J.
- Hinton, W. Va.
- Raleigh, N. C.
- Irvington, N. J.
- Rutherfordton, N. C.
- Allen, Md.
- Branford, Conn.
- High Point, N. C.
- Mountainair, N. M.
- Sea Girt, N. J.
- North Platte, Neb.
- Princeton, Ill.
- Courtland, Ala.
- Greensboro, N. C.
- Greensboro, N. C.
- Clovis, N. M.
- High Point, N. C.
- High Point, N. C.
- Monroe, N. C.
- Spartanburg, S. C.
- New Canaan, Conn.
- Keene, N. H.
- Wilmington, Del.
- Charleston, S. C.
- Fayetteville, Tenn.
- Fayetteville, Tenn.

## SECOND YEAR

- |  |                                 |
|--|---------------------------------|
| Adams, Margaret Louise<br>A.B., Duke University, 1938.   | Esterly, Pa.                    |
| Arnold, Herman Ross, Jr.<br>B.A., Furman University, 1937.   | Athens, Tenn.                   |
| Beattie, Frank John<br>A.B., Oberlin College, 1931.  | New London, Ohio                |
| Cleaveland, Fred Neill<br>A.B., Duke University, 1937.   | Orange, N. J.                   |
| Daniels, George Neil<br>B.S., Davis and Elkins College, 1932.  | Elkins, W. Va.                  |
| Foster, Elliott Orman, Jr.<br>A.B., Bates College, 1937.   | Millbury, Mass.                 |
| Garber, Murray Roger<br>A.B., Duke University, 1938.   | Bradford, Pa.                   |
| Gracey, Hugh Catron<br>B.S., Davidson College, 1937.   | Franklin, Tenn.                 |
| Harris, Roger Kennedy<br>A.B., Duke University, 1937.  | Newport, Ark.                   |
| Hassel, Merrill Lynnwood<br>A.B., Duke University, 1938.   | Bart, Pa.                       |
| Hayes, Johnson Jay, Jr.<br>B.A., Wake Forest College, 1937.  | Greensboro, N. C.               |
| Hendrickson, Burnell Howe<br>A.B., University of South Dakota, 1938.   | Viborg, S. D.                   |
| Josephs, Alex Rustin<br>Centre College, 1934-35; Duke University, 1935-37.   | Charlotte, N. C.                |
| Keene, Spotswood Hughes<br>A.B., Randolph-Macon College, 1937.   | Ashland, Va.                    |
| Klein, Joseph<br>Northwestern University, first semester, 1933-34; Northwestern University, 1935-37.   | Chicago, Ill.                   |
| Koop, Charles Thomas<br>A.B., Duke University, 1938.   | Wright Junior College, 1934-35; |
| Laufer, Joseph<br>Karls Gymnasium, 1925-27; University of Berlin, 1927-28; University of Heidelberg, 1928-29; University of Tübingen, 1929-31. | Islip, N. Y.                    |
| McCoy, John Oliver<br>A.B., Duke University, 1938.   | Durham, N. C.                   |
| Malmquist, Tord Vincent<br>A.B., Marshall College, 1937.   | Glen Jean, W. Va.               |
| Missal, Harold Milton<br>Ph.B., Dickinson College, 1935.   | Huntington, W. Va.              |
| Moore, John Shelby<br>A.B., Duke University, 1937.   | Bristol, Conn.                  |
| Onsgard, Henry Adolph<br>B.A., University of Wichita, 1937.  | Clarksburg, W. Va.              |
| Pope, Harrell<br>A.B., Duke University, 1938.  | Wichita, Kan.                   |
| Poyner, James Marion<br>B.S., North Carolina State College of Agriculture and Engineering, 1935; M.S., 1937.                                   | Dunn, N. C.                     |
| Raub, Benjamin Dimmick, Jr.<br>A.B., Lafayette College, 1937.  | Raleigh, N. C.                  |
| Robertson, Joseph Roderick<br>B.S., Wake Forest College, 1938.   | Easton, Pa.                     |
|  | Knightdale, N. C.               |

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| Rouzer, Elmer Ellsworth<br>A.B., Duke University, 1938.  | Hagerstown, Md.      |
| Stoner, James Byron<br>A.B., Stanford University, 1937.  | Los Angeles, Calif.  |
| Shepard, James Schumann<br>A.B., Wabash College, 1937.   | Columbia City, Ind.  |
| Stone, Russell DeLeon<br>A.B., Duke University, 1938.  | Wilmington, N. C.    |
| Tunnell, Robert White<br>A.B., Muskingum College, 1937.  | Georgetown, Del.     |
| Turner, Charles Fletcher<br>A.B., Duke University, 1938.   | Birmingham, Ala.     |
| Vandenburgh, Edward Clinton, III<br>B.S., Iowa State College of Agriculture and Mechanic Arts, 1937. | Sioux City, Iowa     |
| Wanless, Julian Thor<br>A.B., DePauw University, 1937.   | Springfield, Ill.    |
| Weinstein, Maurice Aaron<br>A.B., Duke University, 1938.   | Salem, N. J.         |
| Welfare, Bradley Lamar, Jr.<br>A.B., Duke University, 1937.  | Winston-Salem, N. C. |

## THIRD YEAR

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|--|--|
| Arnold, Hubert Kennard<br>A.B., University of Maryland, 1935.                      | Hyattsville, Md.                       |
| Betts, Willard Furman, Jr.<br>A.B., University of North Carolina, 1936.            | Raleigh, N. C.                         |
| Blackburn, James William, Jr.<br>Western Kentucky State Teachers College, 1931-34. | Bowling Green, Ky.                     |
| Bogue, Robert William<br>B.A., University of Wisconsin, 1936.                      | Parker, S. D.                          |
| Bomar, Fleming Brown<br>A.B., Wofford College, 1936.                               | Spartanburg, S. C.                     |
| Burwell, George Allen<br>A.B., Duke University, 1937.                              | Warrenton, N. C.                       |
| Carden, Russell Campbell<br>A.B., Duke University, 1937.                           | Chattanooga, Tenn.                     |
| Cooley, Edward William<br>A.B., Duke University, 1936.                             | Wheeling, W. Va.                       |
| Deneen, Russell Sanders<br>A.B., Duke University, 1937.                            | Bakersville, N. C.                     |
| Desvernine, Eugene<br>A.B., Duke University, 1937.                                 | Buen Retiro, Marianao,<br>Havana, Cuba |
| Forsythe, John Samuel<br>Geneva College, 1933-36.                                  | Rocky Mount, Va.                       |
| Gibbs, Charles Haskell<br>A.B., College of Charleston, 1936.                       | Charleston, S. C.                      |
| Griffith, Erma Ellen<br>A.B., Duke University, 1937.                               | Lebanon, Va.                           |
| Hoffman, John Edward<br>A.B., Duke University, 1937.                               | Fort Wayne, Ind.                       |
| Knapp, James Edward<br>A.B., Duke University, 1937.                                | Irasburg, Vt.                          |
| Lowe, James Russell<br>A.B., Duke University, 1936.                                | Elon College, N. C.                    |
| Mann, Oliver DeWitt<br>A.B., Duke University, 1936.                                | Whitakers, N. C.                       |



Margraf, Gustav Benhart A.B., Southeast Missouri State Teachers College,	Cape Girardeau, Mo. 1936.
Maxwell, Lylton Ethridge A.B., Duke University, 1936.	Pink Hill, N. C.
Meyerson, Stanley Phillip A.B., Duke University, 1937.	Charleston, S. C.
Moose, William Lewis, III B.A., Hendrix College, 1936.	Little Rock, Ark.
Morrah, Patrick Bradley, Jr. A.B., The Citadel, 1936.	Greenville, S. C.
Oakes, John Campbell B.S., State Teachers College of Tennessee, 1936.	Johnson City, Tenn.
Page, Hugh Alexander, Jr. Duke University, 1932-36.	Clayton, N. C.
Powell, Rufus Heflin, III A.B., Duke University, 1936.	Durham, N. C.
Reid, Edwin Kitchen A.B., Syracuse University, 1936.	Albany, Ga.
Renner, Charles Victor A.B., Marietta College, 1936.	Parkersburg, W. Va.
Sanders, Richard Tatum A.B., Baylor University, 1935.	Sherman, Tex.
Tomlinson, Benson Cahoon Southeast Missouri State Teachers College, 1933-36.	Fornfelt, Mo.
Turlington, David James, Jr. Duke University, 1933-36.	Clinton, N. C.
Womble, William Fletcher A.B., Duke University, 1937.	Winston-Salem, N. C.

## THE SCHOOL OF MEDICINE

## FIRST YEAR

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
William Edwin Baldwin, Jr..... Duke University; S. S., Wake Forest College.	Dunn, N. C.....	1013 Monmouth Ave., Durham, N. C.
Boyd Black..... Waynesburg College.	Mather, Pa.....	University Apts.-H3B, Durham, N. C.
Albert Henry Bremer, Jr..... University of Virginia.	Rochelle Park, N. J.....	813 Third St., Durham, N. C.
Clyde Owens Brindley..... University of Texas.	Temple, Texas.....	915 Green St., Durham, N. C.
Iverson Oakley Brownell..... Washington State College.	Pasco, Washington..	University Apts.-M1A, Durham, N. C.
Walter Ellis Bryant..... College of Charleston; Newberry College.	Darlington, S. C.....	1024 Gloria Ave., Durham, N. C.
Merwin Elliott Buchwald..... Washington and Lee University.	Brooklyn, N. Y..	1507 Duke University Road, Durham, N. C.
George William Burch..... University of Florida.	Lauderdale, Fla.....	807 Second St., Durham, N. C.
Clarence Cooper Butler..... Vanderbilt University.	Columbus, Ga.....	University Apts.-M2A, Durham, N. C.
John Robert Clark, Jr..... Randolph-Macon College.	Stuart, Va.....	University Apts.-M2A, Durham, N. C.
Joseph Henry Cutchin, Jr..... Davidson College.	Whitakers, N. C.....	1024 Gloria Ave., Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Roy David Daniel..... <i>Florida Southern College;</i> <i>University of Florida.</i>	Fort Meyers, Fla.....	Duke University, House C.
William Arthur Dinsmore..... <i>Pennsylvania State College.</i>	Heilwood, Pa.....	1013 Monmouth Ave., Durham, N. C.
Herbert W. Eakins, Jr..... <i>Wittenberg College.</i>	Springfield, Ohio.....	1601 Duke University Road, Durham, N. C.
Hartwell Price Edwards..... <i>Wofford College.</i>	Spartanburg, S. C.....	Duke Hospital
John Robert Egan..... <i>Harvard College.</i>	Washington, D. C.....	1104 Watts St., Durham, N. C.
John Mellichamp Fearing..... <i>College of Charleston;</i> <i>University of North Carolina.</i>	Charleston, S. C.....	University Apts.-M1A, Durham, N. C.
Arthur Howard Flower, Jr..... <i>Heidelberg College.</i>	Dayton, Ohio.....	Duke University, House B.
Joseph Armistead Ford, Jr..... <i>Lynchburg College;</i> <i>Virginia Military Institute.</i>	Lynchburg, Va.....	University Apts.-L3A, Durham, N. C.
Elmer Thomas Gale..... <i>Duke University.</i>	Clinton, N. C.....	Duke University, Epworth.
Joe Frank Harris..... <i>Duke University.</i>	Raleigh, N. C.....	Duke University, House C.
John Roy Hege, Jr..... <i>Salem College;</i> <i>Duke University.</i>	Winston-Salem, N. C.....	Duke University, House B.
Addison Weaver Hopper..... <i>Duke University.</i>	Maplewood, N. J.....	Duke University, House B.
Stephen Francis Horne..... <i>Duke University.</i>	Farmington, N. C.....	Duke University, House B.
Frank Randolph Johnston..... <i>Presbyterian College.</i>	Greer, S. C.....	University Apts.-M1A, Durham, N. C.
Herbert David Kerman..... <i>Duke University.</i>	West Palm Beach, Fla.....	Duke University, House B.
Charles Edward Kernodle, Jr..... <i>Elon College.</i>	Elon College, N. C.....	Duke University, House A.
John Franklin Kincaid..... <i>Hampden-Sydney College.</i>	Leesburg, Va.....	Duke University, House A.
Chester Sedgewick Koop..... <i>Duke University.</i>	Islip, N. Y.....	Duke University, House DD.
Tarcila Laperal..... <i>University of Philippines;</i> <i>University of Santo Tomas;</i> <i>Rollins College.</i>	Manila, P. I.	
Frank R. Ledesma-Diaz..... <i>The Catholic University of America.</i>	San Juan, Puerto Rico....	Duke University, House D.
Julian Carr Lentz, Jr..... <i>Duke University.</i>	Durham, N. C.....	1006 Lamond Ave., Durham, N. C.
James William Littler..... <i>Duke University.</i>	Manlius, N. Y.....	Duke University, House Q.
William Campbell McLain, Jr..... <i>Duke University;</i> <i>University of South Carolina.</i>	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
I. William McLean, Jr..... <i>Davidson College.</i>	Kingston, Jamaica, B. W. I.	University Apts.-M1A, Durham, N. C.
Theo Howell Mees..... <i>Capital University;</i> <i>S. S., University of Maryland.</i>	Chevy Chase, D. C...	University Apts.-M1A, Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Davis DeLeon Moise..... <i>University of Maryland; Duke University.</i>	Sumter, S. C.....	Duke University, House V. Durham, N. C.
Frank Theodore Moran..... <i>Rutgers University; Vanderbilt University.</i>	Jersey City, N. J....	University Apts.-M2A, Durham, N. C.
William Reynolds Nesbitt, Jr..... <i>Williams Junior College; Duke University.</i>	Durham, N. C.....	2403 Club Blvd., Durham, N. C.
Earl Andrew O'Neill..... <i>Springfield College.</i>	Elizabeth, N. J.....	University Apts.-M2A, Durham, N. C.
Charles Hamilton Reid, Jr..... <i>Salem College; University of North Carolina.</i>	Winston-Salem, N. C.....	Duke University, House B.
Frank Newell Reimer..... <i>Long Beach Junior College; Stanford University.</i>	Long Beach, Calif.....	Duke University, House B.
James Franklin Reinhardt..... <i>Davidson College.</i>	Lincolnton, N. C....	University Apts.-M1A, Durham, N. C.
Robert Alfred Greer Ricketson... <i>Vanderbilt University.</i>	Broxton, Ga.....	University Apts.-M1A, Durham, N. C.
Luther John Roberts, Jr..... <i>Georgia Military Academy; Washington and Lee University.</i>	Newnan, Ga....	1507 Duke University Road, Durham, N. C.
James Forbes Rogers..... <i>Duke University.</i>	Upper Montclair, N. J....	Duke University, House C.
Max Pritchard Rogers..... <i>High Point College.</i>	Burlington, N. C.....	Duke University, House D.
Brita Rosenqvist..... <i>University of Pittsburgh.</i>	Oakmont, Pa.....	308 Faculty Apts., Durham, N. C.
William Crenshaw Smith..... <i>Randolph-Macon College.</i>	Creeds, Va.....	University Apts.-M2A, Durham, N. C.
Richard Dean Snipes..... <i>University of North Carolina.</i>	Hamlet, N. C.....	1204 College Road, Durham, N. C.
George Peter Snyder, Jr..... <i>Duke University.</i>	Ridgefield Park, N. J....	Duke University, House B.
Helen Starke..... <i>Duke University.</i>	Ridgewood, N. J.....	1023 Dacian Ave., Durham, N. C.
John Thomas Stone..... <i>The Citadel.</i>	Greenwood, S. C..	1601 Duke University Road, Durham, N. C.
William Conrad Stone..... <i>Hampden-Sydney College.</i>	Roanoke, Va.....	Duke University, House A.
John Mather Street..... <i>Yale University.</i>	Manzanillo, Cuba.....	813 Third St., Durham, N. C.
Archie Reid Sutherland..... <i>Duke University; S. S., Emory and Henry College.</i>	Sparta, Ill.....	Duke University, House A.
George Foster Sutherland..... <i>Duke University; Duke University Graduate School.</i>	Grundy, Va.....	Duke University, House A.
Ralph Gordon Templeton..... <i>University of North Carolina.</i>	China Grove, N. C....	906 Monmouth Ave., Durham, N. C.
Andrew Henry Thomas..... <i>Roanoke College.</i>	New Britain, Conn.....	Duke University, House B.
Harold Bushman Thurston..... <i>Duke University.</i>	Martinsburg, W. Va.....	Duke University, House B.
Henry Lewis Valk..... <i>University of North Carolina; University of Pennsylvania.</i>	Winston-Salem, N. C.....	1022 Gloria Ave., Durham, N. C.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
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Louis Charles Waller..... <i>Pennsylvania State College.</i>	Nanticoke, Pa...1505	Duke University Road, Durham, N. C.
Theodore Willard Weeks, Jr..... <i>University of Florida.</i>	Moore Haven, Fla.....	807 Second St., Durham, N. C.
Walter F. Whitt, Jr..... <i>Catawba College.</i>	Salisbury, N. C.....	Duke University, House C.
Charles Kenneth Wintrup..... <i>University of Pennsylvania; University of Delaware.</i>	Wilmington, Del.....	1000 Lamond Ave., Durham, N. C.
Harry Clyde Wortman, Jr..... <i>University of Tennessee.</i>	Belleville, N. J.....	Duke University, House F.
William Armand Wulfman..... <i>Marshall College.</i>	Huntington, W. Va.	University Apts.-M1A, Durham, N. C.
William Vernon Young..... <i>Maryville College.</i>	Washington, N. J.....	Duke Hospital.

## SECOND YEAR

Ellis Wentworth Adams..... <i>University of Michigan; Michigan State College.</i>	Ypsilanti, Mich.....	Duke University, House B.
Richard Haight Ames..... <i>Haverford College.</i>	Onancock, Va.....	Duke Hospital.
Kenward Oliver Babcock..... <i>San Mateo Junior College; Stanford University.</i>	Ontario, Calif.....	Duke University, House A.
Gareth Bonsack Barnes..... <i>Antioch College; Bridgewater College.</i>	Elgin, Ill.....	Duke Hospital.
Ralph Etheridge Baum..... <i>Duke University.</i>	Kitty Hawk, N. C.....	Duke University, House C.
Steven I. Bednarz..... <i>Rutgers University.</i>	Wallington, N. J.....	810 Second St., Durham, N. C.
Edward Perry Benbow, Jr..... <i>Guilford College; University of North Carolina.</i>	Greensboro, N. C.....	Duke University, House B.
Emil Charles Beyer..... <i>Duke University.</i>	White Plains, N. Y.....	Duke University, House C.
Edwin Wells Brown..... <i>Biltmore College; Duke University.</i>	Asheville, N. C.....	Duke University, House A.
James Walter Brown, Jr..... <i>Duke University.</i>	Gatesville, N. C....1515 W.	Pettigrew St., Durham, N. C.
Kenneth Brien Brown..... <i>Franklin and Marshall College.</i>	Montclair, N. J.....	Duke University, House B.
William Keefer Brumbach..... <i>Duke University.</i>	Belleville, N. J.....	1017 Gloria Ave., Durham, N. C.
Woodrow William Burgess..... <i>Duke University.</i>	Royal Oak, Mich.....	1000 Lamond Ave., Durham, N. C.
Joseph Kalil David, Jr..... <i>University of Florida;</i>	Jacksonville, Fla.....	Duke University, House B.
J. Harold Donaldson, Jr..... <i>Marshall College.</i>	Huntington, West Va.....	818 Second St., Durham, N. C.
Frederick Duncan Elliott..... <i>Dickinson College.</i>	Coudersport, Pa.....	Duke Hospital.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
John Ernest Emmett..... <i>Lafayette College.</i>	New York City.....	Box 4314, Duke Station, Durham, N. C.
William Allen Exum..... <i>Davidson College; Duke University.</i>	Snow Hill, N. C.....	Duke University, House C.
Paul T. Forth..... <i>University of Michigan.</i>	Rochester, N. Y.....	Duke University, House B.
James S. Gilliam, Jr..... <i>University of North Carolina.</i>	Elon College, N. C.....	Duke University, House B.
Henry Boone Grant..... <i>University of North Carolina.</i>	Garysburg, N. C.....	Duke University, House A.
Briant Bowman Guerin..... <i>Duke University.</i>	Mendham, N. J.....	1515 W. Pettigrew St., Durham, N. C.
Hubert B. Haywood, Jr..... <i>University of North Carolina.</i>	Raleigh, N. C.....	1022 Gloria Ave., Durham, N. C.
Donald Vincent Hirst..... <i>Duke University.</i>	Durham, N. C...	1507 Duke University Road, Durham, N. C.
Charles William Hock..... <i>Bluefield College; Duke University.</i>	Bluefield, West Va.....	Duke University, House A.
James Weston Hodges..... <i>North Carolina State; East Carolina Teachers College.</i>	Greenville, N. C.....	1515 W. Pettigrew St., Durham, N. C.
William Nolen Horsley..... <i>Duke University.</i>	Belmont, N. C.....	Duke University, House A.
Richard Carroll Irving..... <i>Muskingum College.</i>	Conneaut, Ohio.....	116 Buchanan Blvd., Durham, N. C.
Stanley Karansky..... <i>Columbia University.</i>	Brooklyn, N. Y.....	Duke Hospital.
William Hummel Karmany..... <i>Gettysburg College; The Johns Hopkins University; School of Hygiene &amp; Public Health.</i>	Hummelstown, Pa.....	Duke Hospital.
William Baugher Kintzing..... <i>Dickinson College.</i>	Hanover, Pa.....	Duke University, House B.
Glenn Augustus Kiser..... <i>University of North Carolina.</i>	Bessemer City, N. C.....	Duke University, House A.
Frank Rambo Mann..... <i>University of Georgia.</i>	McRae, Ga.....	Duke University, House B.
Archibald Graham McIlwaine Martin, III..... <i>Randolph-Macon College; North Carolina State College, S. S.; University of North Carolina, S. S.</i>	Suffolk, Va.....	Duke Hospital.
Rudolph Powers McCulloch..... <i>Michigan State Normal.</i>	Ypsilanti, Mich.....	Duke University, House C.
Oscar Lee McFadyen, Jr..... <i>Duke University.</i>	Fayetteville, N. C.....	Duke University, House A.
Addison Lee Messer..... <i>University of Florida.</i>	Tallahassee, Fla.....	Duke Hospital.
Muriel Meyers..... <i>Hood College.</i>	Pittsburgh, Pa.....	Faculty Apts.-308, Durham, N. C.
Leon Howard Mims, Jr..... <i>The Citadel; University of South Carolina.</i>	Florence, S. C.....	1312 Birch St., Durham, N. C.
Edwin Hastings Mulford, II..... <i>Duke University; S. S., Cornell University.</i>	Little Falls, N. Y.....	Duke Hospital.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Jesse Phillip Muse..... <i>Duke University.</i>	Savannah, Ga.....	Duke University, House B.
Robert Glevé Neill..... <i>Bakersfield Junior College; University of California.</i>	Bakersfield, Calif.....	University Apts.-E3C, Durham, N. C.
Olin Charles Perryman, Jr..... <i>University of North Carolina.</i>	Winston-Salem, N. C.....	1004 Urban Ave., Durham, N. C.
Arnold Zachary Pfeffer..... <i>City College of New York; University of Maryland.</i>	New York City.....	Duke Hospital.
Kenneth Arthur Podger..... <i>Duke University.</i>	Kenmore, N. Y.....	Duke University, House CC.
Millard Pinson Quillian..... <i>University of Florida; Western State Teachers College.</i>	Bradenton, Fla.....	1515 Pettigrew St., Durham, N. C.
Mila Elisabeth Rindge..... <i>Connecticut College for Women.</i>	Madison, Conn.....	Faculty Apts.-214, Durham, N. C.
Eric Dutton Savage..... <i>Harvard University.</i>	New York City.....	1022 Gloria Ave., Durham, N. C.
John Green Scott, Jr..... <i>Duke University; S. S., University of Pittsburgh.</i>	Tamaqua, Pa.....	Duke University, House C.
William Harrison Sellers..... <i>Alabama Polytechnic Institute; Duke University.</i>	Anniston, Ala.....	1003 Monmouth Ave., Durham, N. C.
Gardner Ford Smart..... <i>Duke University.</i>	Troy, Ala.....	518 Warren St., Durham, N. C.
Paul Delaine Snedegar..... <i>Davis and Elkins College; S. S., University of Michigan.</i>	Elkins, West Va.....	Duke University, House B.
David Rodney Stack, Jr..... <i>Wofford College.</i>	Charleston, S. C.....	1012 Burch Ave., Durham, N. C.
Charles Clarence Stauffer..... <i>Duke University.</i>	Washington, D. C.....	Duke University, House C.
Gordon Conover Stenhouse..... <i>New York University; University of North Carolina.</i>	Mt. Vernon, N. Y.....	Duke University, House C.
Richard McCulloch Taliaferro.... <i>Duke University.</i>	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
William Gilmore Thompson..... <i>Duke University.</i>	Portland, Me.....	814 E. Forest Hills Blvd., Durham, N. C.
George Tudor Thornhill, Jr..... <i>Duke University.</i>	Bluefield, W. Va.....	1013 Monmouth Ave., Durham, N. C.
Raymond Perle Thornhill..... <i>University of Idaho.</i>	Kellogg, Idaho.....	1000 Lamond Ave., Durham, N. C.
Lloyd Flinton Timberlake..... <i>Duke University; S. S., University of South Carolina.</i>	Columbia, S. C.....	1013 Monmouth Ave., Durham, N. C.
James McKnight Timmons..... <i>Duke University; University of South Carolina.</i>	Columbia, S. C.....	303 Swift Ave., Durham, N. C.
Philip Cocke Trout..... <i>University of Virginia.</i>	Roanoke, Va.....	1013 Monmouth Ave., Durham, N. C.
Don James Weekes..... <i>Fresno State Teachers College; Stanford University.</i>	Fresno, Calif.....	1025 Monmouth Ave., Durham, N. C.
Walter LeRoy Widmark..... <i>Duke University.</i>	Verona, N. J.....	1515 W. Pettigrew St., Durham, N. C.



<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Thomas Wilfred Wills.....	San Diego, Calif.....	University Apts.-E3C, Durham, N. C.
<i>Harvard University; Stanford University.</i>		
Prentiss Willson, Jr.....	Washington, D. C.....	1006 Shepherd St., Durham, N. C.
<i>George Washington University; Pennsylvania State College.</i>		
George Ashby Winstead.....	Rocky Mount, N. C.....	Duke University, House A.
<i>Wake Forest College.</i>		

## SENIOR

Felix M. Adams, Jr. (6/5/39)*...	Vinita, Okla.....	University Apts.-E3C, Durham, N. C.
<i>Oklahoma A. &amp; M. College.</i>		
Norman LaRue Anderson (12/16/39).....	Durham, N. C.....	Duke Hospital. Duke University.
Frederick Henry Andrus (12/16/39).....	Durham, N. C.....	University Apts.-C2C, Durham, N. C.
<i>Akron University; Duke University.</i>		
Waldo Otis Badgley (12/16/39)..	East Lansing, Mich.....	1005 N. Duke St., Durham, N. C.
<i>General Motors Institute of Technology; Michigan State College.</i>		
Fred Nelson Baeder.....	Nutley, N. J.....	Duke Hospital. Duke University.
Oliver Jerome Bateman, Jr. (12/16/39).....	Byron, Ga.....	University Apts.-H3B, Durham, N. C.
<i>Duke University.</i>		
Robert Martin Biddle (6/5/39)...	Parkersburg, West Va.....	1006 Dacian Ave., Durham, N. C.
<i>Northwestern University; Duke University.</i>		
William Hegley Bonser (12/16/39).....	Toledo, Ohio.....	108 E. Markham Ave., Durham, N. C.
<i>Yale University.</i>		
Ivan Willard Brown, Jr. (12/16/39).....	Newfane, N. Y.....	210 Atlas St., Durham, N. C.
<i>University of Rochester.</i>		
R. Brown (12/16/39).....	Beatrice, Neb.....	905 Second St., Durham, N. C.
<i>Rollins College.</i>		
Walter Earl Brown (9/3/38).....	Wilson, N. C.....	Baker Sanatorium, Lumberton, N. C.
<i>University of North Carolina; medical student, ibid., 1934-1936.</i>		
Charles Pardue Bunch (12/17/38).....	Statesville, N. C.....	818 Sixth St., Durham, N. C.
<i>Duke University.</i>		
James Merryman Burk (12/17/38).	Decatur, Ind.....	208 Buchanan Road, Durham, N. C.
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Robert vanLiew Campbell (12/16/39).....	Hagerstown, Md.....	University Apts.-C3A, Durham, N. C.
<i>University of Maryland.</i>		
Gordon Gayton Carmichael (3/18/39).....	Terre Haute, Ind.....	112 Buchanan Road, Durham, N. C.
<i>Rose Polytechnic; Indiana State University.</i>		
David Cayer (12/17/38).....	Beachwood N. J.....	208 Atlas St., Durham, N. C.
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\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Cecil Curtis Collins, Jr. (12/16/39)..... <i>Marion Institute;</i> <i>Duke University.</i>	Jacksonville, Fla.....	University Apts.-C3A, Durham, N. C.
Victor Conforti..... <i>Connecticut State College.</i>	Torrington, Conn.....	116 Buchanan Road, Durham, N. C.
John Hulon Cox (9/3/38)..... <i>University of North Carolina;</i> <i>medical student, ibid., 1934-1936.</i>	Winston-Salem, N. C.....	Marine Hospital, Chicago, Ill.
Frank Harold Crosby (6/5/39)...	Lockport, N. Y.....	1017 Gloria Ave., Durham, N. C.
John Munroe Douglas (6/5/39)...	Davidson, N. C.....	812 Anderson St., Durham, N. C.
Jere Robert Downing (6/5/39)...	Kennebunk, Me.....	Hope Valley, Durham, N. C.
Ernest Brindley Dunlap, Jr. (6/5/39)..... <i>Duke University.</i>	Lawton, Okla.....	1006 Dacian Ave., Durham, N. C.
Archie Yelverton Eagles (6/5/39).. <i>Duke University.</i>	Wilson, N. C.....	University Apts.-M3A, Durham, N. C.
William Fox Eckbert (6/5/39).... <i>University of Delaware.</i>	Hanover, Pa.....	University Apts.-M3A, Durham, N. C.
Harry Stough Etter (12/16/39)... <i>Duke University.</i>	Shippensburg, Pa.....	Erwin Apts.-307, Durham, N. C.
Arnold Lewis Field (12/17/38).... <i>Johns Hopkins University.</i>	Schnecktady, N. Y....	University Apts.-E3C, Durham, N. C.
Richard Webster Finner (12/16/39)..... <i>University of Florida.</i>	Tallahassee, Fla.....	Duke University, House A.
William Henry Fisher, Jr..... <i>Duke University.</i>	Centreville, Md.....	Duke University, House Q.
Joseph B. Ford, Jr. (12/16/39).... <i>Duke University.</i>	Savannah, Ga.....	Duke Hospital.
William Henry Fulmer..... <i>Duke University.</i>	Savannah, Ga.....	208 Buchanan Road, Durham, N. C.
Julius Joyce Gibbons, Jr..... <i>Duke University.</i>	Wilson, N. C.....	Duke University, House A.
Stephen Arnold Ginn..... <i>Duke University.</i>	Royston, Ga.....	1200 Markham Ave., Durham, N. C.
David Watson Goddard (12/16/39)..... <i>Duke University.</i>	Portsmouth, Ohio.....	905 Second St., Durham, N. C.
Erastus Genair Goodman..... <i>University of North Carolina;</i> <i>medical student, ibid., 1936-1938.</i>	Leland, N. C.....	Duke University, House A.
Risley Frith Haines..... <i>Duke University.</i>	Bayamo, Cuba.....	Duke University, House V.
Willis Wilbur Harris..... <i>University of Florida.</i>	Bee Ridge, Fla.....	Duke University, House A.
Leroy Day Harshman (12/16/39).. <i>Waynesburg College.</i>	Frederickstown, Pa..	University Apts.-H3B, Durham, N. C.
William Carter Hawkins..... <i>Mars Hill College;</i> <i>Duke University.</i>	West Asheville, N. C.....	Duke University, House A.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
William Victor Haymond (12/17/38)..... <i>University of Utah.</i>	Garfield, Utah.....	208 Atlas St., Durham, N. C.
Joseph Spurgeon Hiatt, Jr. (12/16/39)..... <i>Lenoir Rhyne College; Duke University.</i>	Lenoir, N. C.....	Duke University, House A.
Rolf Elmo Johnson..... <i>Duke University.</i>	Harrisburg, Pa.....	116 Buchanan Road, Durham, N. C.
James Woodruff Kelley..... <i>University of Delaware.</i>	Wilmington, Del.....	Duke University, House B.
Harold Barker Kernodle (6/5/39)..... <i>Duke University.</i>	Elon College, N. C.....	Duke University, House A.
Robert Dumais Kornegay (6/5/39)..... <i>Davidson College.</i>	Rocky Mount, N. C.....	402 Watts St., Durham, N. C.
George Harold Kostant..... <i>Johns Hopkins University.</i>	Brooklyn, N. Y.....	Duke University, House J.
Harold Hunter Kuhn..... <i>Duke University.</i>	Charleston, W. Va....	University Apts.-C2C, Durham, N. C.
Charles Larsen (3/18/39)..... <i>University of Florida.</i>	Lakeland, Fla.....	University Apts.-C3B, Durham, N. C.
Charles Wells Latchem (12/17/38)..... <i>St. Ambrose College; Duke University.</i>	Washington, Iowa.....	812 Anderson St., Durham, N. C.
Jerome Lawrence (3/18/39)..... <i>New York University.</i>	New York, N. Y.....	Duke University, House B.
Robert Carl Lincicome (12/17/38)..... <i>Marietta College.</i>	Marietta, Ohio.....	912 Anderson St., Durham, N. C.
Stanley Joseph Lourdeaux..... <i>Santa Clara University; Menlo Junior College; Stanford University.</i>	San Francisco, Calif.....	903 Sixth St., Durham, N. C.
Paul Warren Lucas (6/5/39)..... <i>Duke University.</i>	Durham, N. C.....	100 Club Blvd., Durham, N. C.
Paul Franklin Maness (12/16/39)..... <i>Wofford College; Duke University.</i>	Yanceyville, N. C.....	Duke Hospital.
George Margolis..... <i>Johns Hopkins University.</i>	Montgomery, W. Va....	1022 W. Trinity Ave., Durham, N. C.
Lester Henry Margolis..... <i>Johns Hopkins University.</i>	Montgomery, W. Va....	1022 W. Trinity Ave., Durham, N. C.
Theodore Roosevelt Mattocks (12/17/38)..... <i>Duke University.</i>	Maysville, N. C.....	Duke Hospital.
William Jefferson McAnally, Jr. (12/17/38)..... <i>Duke University.</i>	High Point, N. C.....	3002 Club Blvd., Durham, N. C.
Harold Ellis Merkle (12/17/38)..... <i>Brigham Young University.</i>	Salt Lake City, Utah.....	809 Second St., Durham, N. C.

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
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Robert Plato Miller.....	Lincolnton, N. C.....	University Apts.-E2B, Durham, N. C.
<i>Duke University.</i>		
Wardell Hardee Mills.....	Greenville, N. C.....	Duke University. House B.
<i>East Carolina Teachers College; University of North Carolina.</i>		
Oscar Peyton Moffitt, Jr. (12/17/38).....	High Point, N. C.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
Rufus Clegg Morrow, Jr. (12/17/38).....	Zitacuaro, Michoacan, Mexico.	Duke Hospital. Davidson College.
<i>Davidson College.</i>		
Lyle Alfred Moser (6/9/39).....	Muir, Pa.....	Duke University. House B.
<i>Muhlenberg College; Lebanon Valley College.</i>		
John Edward Moss.....	Mobile, Ala.....	208 Buchanan Road, Durham, N. C.
<i>Duke University.</i>		
Colin Alexander Munroe (6/5/39).....	Charlotte, N. C.....	208 Buchanan Road, Durham, N. C.
<i>Davidson College.</i>		
Henry Ten Eycke Munson (6/5/39).....	Detroit, Mich.....	1026 Trinity Ave., Durham, N. C.
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Brodie Crump Nalle, Jr. (6/5/39).....	Charlotte, N. C.....	Duke University, House C.
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Glenn Carraway Newman (6/5/39).....	Clinton, N. C.....	University Apts.-M3A, Durham, N. C.
<i>Duke University; Wake Forest College.</i>		
Robert H. Nickau (6/5/39).....	Rahway, N. J.....	1004 Urban Ave., Durham, N. C.
<i>North Carolina State College.</i>		
Pat Ireland Nixon, Jr. (6/5/39).....	San Antonio, Texas.....	Duke University, House A.
<i>University of Texas.</i>		
Robert Read Nixon.....	San Antonio, Texas.....	Duke University, House A.
<i>University of Texas; St. Mary's University of San Antonio.</i>		
Gilbert Matthewson Palen (6/5/39).....	Woodbury, N. J.....	208 Buchanan St., Durham, N. C.
<i>Hamilton College.</i>		
Joseph Freeman Paquet (12/16/39).....	Portland, Oregon....	Duke University Road, Durham, N. C.
<i>University of Oregon; University of Idaho; Duke University.</i>		
Albert Archer Parrish (12/17/38).....	Tabor City, N. C.....	Duke Hospital. Duke University.
<i>Duke University.</i>		
Pierre Patillo Poole.....	Cross Anchor, S. C.....	1012 Burch Ave., Durham, N. C.
<i>John B. Stetson University.</i>		
Lawrence Augustus Pyle, Jr. (6/5/39).....	Washington, D. C.....	Duke University, House A.
<i>University of Maryland; George Washington University.</i>		
James Sidney Raper (9/3/38)....	Lexington, N. C....	Rocky Mount Sanatorium, Rocky Mount, N. C.
<i>Duke University.</i>		
Rufus Winston Roberts, Jr.....	Birmingham, Ala.....	Duke University, House C.
<i>Duke University.</i>		

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
Ralph Wayne Rundles.....	Hudson, Ind.....	2109 Chapel Hill Road, Durham, N. C.
<i>De Pauw University; Cornell University Graduate School.</i>		
Robert Thornton Rutherford, Jr. (12/16/39).....	Charlotte, N. C.....	Duke University, House A.
William J. Rysanek, Jr. (3/18/39)	Baltimore, Md.....	University Apts.-J1A, Durham, N. C.
<i>Johns Hopkins University.</i>		
Clarence Joseph Sapp.....	Albany, Ga.....	Duke University, House V.
<i>Duke University.</i>		
Logan Everett Sawyer (3/18/39)	South Mills, N. C...	University Apts.-M3A, Durham, N. C.
<i>Duke University.</i>		
Paul Welstead Schanher, Jr. (12/17/38).....	Mt. Clemens, Mich...	Duke University Road, Durham, N. C.
<i>Duke University.</i>		
Thomas Gilbert Schnoor (12/17/38).....	Berkeley, Calif.....	901 Fifth St., Durham, N. C.
<i>University of California; University of Nevada.</i>		
Richard Allen Shields, Jr.....	Lewes, Del.....	Duke University, House Q.
<i>Duke University.</i>		
Patti Marie Sills.....	Nashville, N. C.....	116 Buchanan Blvd., Durham, N. C.
<i>Duke University.</i>		
Paul Ervin Simpson (12/16/39)	Ridgewood, N. J....	University Apts.-C3A, Durham, N. C.
<i>Muhlenberg College; Duke University.</i>		
Robert Cathcart Smith (6/5/39)	Mullins, S. C.....	208 Buchanan St., Durham, N. C.
<i>The Citadel.</i>		
George Arthur Sotirion (12/16/39).....	Chicopee, Mass.....	210 Atlas St., Durham, N. C.
<i>Johns Hopkins University.</i>		
Ross Clarence Speir, Jr.....	Birmingham, Ala.....	Duke University, House C.
<i>Duke University.</i>		
Sidney Stark (6/5/39).....	Brooklyn, N. Y.....	Duke University, House B.
<i>New York University.</i>		
Howard Paul Steiger (12/16/39)	Williamsport, Pa....	University Apts.-C3A, Durham, N. C.
<i>Bucknell University; Duke University.</i>		
Wray Donald Storey (3/18/39)	Scottdale, Pa.....	University Inn, Durham, N. C.
<i>Geneva College.</i>		
Doris Lee Surles (6/5/39).....	Dunn, N. C.....	116 Buchanan Road, Durham, N. C.
<i>Duke University.</i>		
Harvey Grant Taylor (12/16/39)	Los Gatos, Calif.....	Duke Hospital.
<i>San Jose State College; Stanford University.</i>		
Joseph Dimmick Thetford (12/17/38).....	Montgomery, Ala.....	Duke Hospital.
<i>Tulane University; University of Alabama.</i>		
John Redden Timmons (6/5/39)	Columbia, S. C.....	303 Swift Ave., Durham, N. C.
<i>University of South Carolina; Duke University.</i>		
William Trachtenberg (3/18/39)	Winston-Salem, N. C.....	Duke University, House C.
<i>University of North Carolina; Harvard College.</i>		

\* The date in parentheses after a name indicates the time of completion of the medical course.

<i>Name and Preparation</i>	<i>Home Address</i>	<i>University Address</i>
James Lyman Tullis (12/16/39)..... <i>Rollins College.</i>	Cleveland, Ohio.....	1017 Demerius St., Durham, N. C.
James Arthur Tupper..... <i>University of Washington.</i>	Seattle, Wash.....	1022 W. Trinity Ave., Durham, N. C.
Larry Turner (6/5/39)..... <i>Duke University.</i>	Rocky Mount, N. C.....	208 Buchanan Road, Durham, N. C.
William Lucas Venning, Jr. (12/16/39)..... <i>Duke University;</i> <i>Harvard.</i>	Greensboro, N. C.....	Duke University, House B.
Joseph Allison Cannon Wadsworth, II (6/5/39)..... <i>Davidson College.</i>	Durham, N. C.....	410 Buchanan Road, Durham, N. C.
George Ritchie Wall..... <i>University of North Carolina;</i> <i>medical student, ibid., 1936-1938.</i>	Siler City, N. C.....	Duke University, House A.
Frederic Monroe Jacob Walp (6/5/39)..... <i>University of Pennsylvania;</i> <i>Muhlenberg College.</i>	Slatington, Pa.....	Duke University, House B.
Robert Eugene Walsh (12/16/39).. <i>Duke University.</i>	Elmira, N. Y.....	1022 W. Trinity Ave., Durham, N. C.
George Archibald Watson, Jr. (6/5/39)..... <i>Lehigh University;</i> <i>New York University;</i> <i>Duke University.</i>	Cranford, N. J.....	University Drive, Durham, N. C.
Roderick Cameron Webb (6/5/39). <i>St. Petersburg Junior College;</i> <i>Duke University.</i>	St. Petersburg, Fla.....	Duke University, House A.
Kenneth Durham Weeks (6/5/39) <i>Davidson College.</i>	Rocky Mount, N. C.....	402 Watts St., Durham, N. C.
Jack Hamill Welch (6/4/40)..... <i>Ohio State University.</i>	Columbus, Ohio.....	2117 Myrtle Drive, Durham, N. C.
Irving Bernard Wexler (6/5/39). <i>New York University.</i>	New York, N. Y....	University Apts.-E3C, Durham, N. C.
Richard Bidgood Whitaker, Jr.... <i>Duke University.</i>	Whiteville, N. C.....	Duke University, House A.
Robert Macon Whitley, Jr..... <i>Louisburg College;</i> <i>Duke University.</i>	Stantonsburg, N. C.....	Duke University, House A.
Reaves Augustus Wilson (6/5/39)..... <i>University of Florida.</i>	Sarasota, Fla.....	Duke University, House C.
Robert Cary Wood..... <i>Duke University.</i>	Lewisburg, West Va.....	Pinecrest Road, Durham, N. C.
William Egleson Woodruff (12/16/39)..... <i>Duke University.</i>	Winston-Salem, N. C...	1021 Markham Ave., Durham, N. C.
James Clay Wren (3/18/39)..... <i>Rutherford College;</i> <i>Duke University;</i> <i>medical student, University of</i> <i>North Carolina, 1935-1937.</i>	Siler City, N. C.....	Duke Hospital.

\* The date in parentheses after a name indicates the time of completion of the medical course.



## THE SCHOOL OF NURSING

## SENIOR

Adams, Dorothy Ellen  
Alexander, Ruth Brinkley  
Applewhite, Ida Shaw  
Atzrodt, Rebecca Ann  
Barton, Ruth Lorelle  
Bisanar, Lelia Elizabeth  
Castleberry, Margaret  
Cook, Betty Wood  
Cothran, Mary Lillie  
Crowell, Alucia  
Gangle, Elsie S.  
Gordon, Nellie Elizabeth

Maxwell, Winifred Lantz  
Miller, Margaret Carolyn  
Parrish, Marcelle  
Perry, Mary  
Pickett, Margaret Carpenter  
Rabb, Sara Iris  
Rearden, Laureen Harris  
Richards, Dorothy Eugenia  
Sanford, Marian Blinn  
Seawell, Margaret Hines  
Shields, Lois Natalie

## JUNIOR

Allan, Margaret  
Bagby, Virginia  
Boone, Evelyn  
Brake, Thelma  
Bruffey, Jean  
Bryant, Carl  
Clay, Isa  
Cline, Helen  
Gandy, Virginia  
Hinshaw, Esther  
Jones, Nancy

Makely, Antoinette  
Malone, Ernestine  
Morison, Polly  
Painter, Isabelle  
Parker, Esther  
Paynter, Marcella  
Ray, Dorothy  
Wagner, Josephine  
Weaver, Martha  
Weeks, Charlotte  
Wilkinson, Elizabeth

## FRESHMAN

Babb, Frances  
Bigler, Ouida  
Brooke, Inez  
Bryant, Edith  
Bunch, Mary  
Collins, Hallie Jo  
Darrough, Sarah  
Deaton, Dorothy  
Dines, Nancy  
Dugger, Carlotta  
Dulin, Margaret  
Foard, Mary  
Hartley, Lucy  
Henderson, Sarah  
Horton, Elizabeth  
Kale, Ella Mae  
Latham, Daisy  
Ledford, Ruby

Liles, Gladys  
Mallory, Margaret  
Martin, Edrie  
Matheson, Deane  
McCranie, Aline  
Miller, Frances  
Milton, Margaret  
O'Neal, Christine  
Reinhardt, Cynthia  
Schwob, Ann Louise  
Sowers, Lucy  
Steigleman, Betty  
Strawbridge, Margaret  
Wade, Sarah  
Warren, Susan  
Whitener, Marion  
Woodward, Frances  
Young, Helen Rose

## THE SCHOOL OF RELIGION

## SENIOR YEAR

Bloodworth, Marcus Herring	Norfolk, Va.
A.B., Randolph-Macon College, 1936.	
Bumgarner, George William	Wilkesboro, N. C.
A.B., Scarritt College, 1936; A.M., Scarritt College, 1938.	
Collins, Claude Ray	Christiansburg, Va.
A.B., Emory and Henry College, 1936.	
DuBose, Clarence Franklin, Jr.	Irmo, S. C.
A.B., Wofford College, 1931.	
Ellzey, William Clark	Perryton, Texas
A.B., Southeast Missouri State Teachers College, 1936.	
Grice, Phillip Harold	Rowling Fork, Miss.
A.B., Mississippi State Teachers College, 1934.	
Hamilton, John Reynolds	Salisbury, N. C.
A.B., Catawba College, 1936.	
Heckard, Cecil Linwood	Albemarle, N. C.
A.B., Wofford College, 1936.	
Higgins, James Silvester	Guilford College, N. C.
A.B., High Point College, 1937.	
Hubbard, Charles Spence	Sanford, N. C.
A.B., University of North Carolina, 1936.	
Huneycutt, Wiley Jackson	West Jefferson, N. C.
B.S., Davidson College, 1932.	
Jarvis, James Clair	Cedar Grove, W. Va.
A.B., Morris-Harvey College, 1936.	
Jones, Joseph Simeon	Mebane, N. C.
A.B., Elon College, 1932.	
Jones, Theodore Edward	Marion, S. C.
A.B., Wofford College, 1935.	
Lane, Daniel	Durham, N. C.
A.B., Duke, 1913.	
Lindsay, Julian Astor	Washington, N. C.
B.S., Virginia Polytechnic Institute, 1935.	
McCulley, Robert William	Lenoir, N. C.
A.B., Lenoir-Rhyne College, 1936.	
Mallory, Rupert Talmage	Spring Hill, W. Va.
A.B., Morris-Harvey College, 1936.	
Martin, Robert Vance	Gastonia, N. C.
A.B., Wofford College, 1936.	
Morton, Hilton Osro	Tuohomne, Calif.
A.B., Redlands College, 1935.	
Myers, Horwood Prettyman, Jr.	Danville, Va.
A.B., Randolph-Macon College, 1935.	
O'Neal, Ernest Eugene	Charlottesville, Va.
B.S., University of Mississippi, 1935.	
Overton, James Hardy, Jr.	Coinjock, N. C.
A.B., University of North Carolina, 1934.	
Page, Jack Ward	Rowland, N. C.
A.B., Duke, 1936.	
Reese, David Whitehead, Jr.	Greer, S. C.
A.B., Wofford College, 1936.	
Richey, McMurry Smith	San Antonio, Texas
A.B., Duke, 1936.	
Rooks, John James	Gainesville, Fla.
A.B., Birmingham-Southern College, 1936.	
Schreyer, George Maurice	Fletcher, N. C.
A.B., Wofford College, 1936.	

Shackford, Joseph Temple A.B., Duke, 1934.	Rock Hill, S. C.
Shives, Marshall Bell A.B., Lenoir-Rhyne College, 1935.	Lincolnton, N. C.
Smith, Aubert Marlyn A.B., High Point College, 1935.	High Point, N. C.
Soper, Elgar Clyde A.B., Duke, 1936.	Olney, Md.
Stephenson, Marion Osborne A.B., Duke, 1932.	Durham, N. C.
Tate, Robert Spence, Jr. A.B., Southern Methodist, 1936.	San Antonio, Texas
Taylor, Voigt Otway A.B., Newberry College, 1929.	Southern Pines, N. C.
Vick, Thomas Marvin A.B., Southern Methodist, 1936.	Longhurst, N. C.
Wilkerson, Milton Chick A.B., Hampden-Sydney College, 1933.	Mattoax, Va.
Williams, Melvin John A.B., Duke, 1936.	Durham, N. C.
Wood, Hoyt Hampton A.B., High Point College, 1936.	Denton, N. C.

## MIDDLE YEAR

Andes, William Jacob A.B., Elon College, 1935.	Harrisonburg, Va.
Andrews, William Ed A.B., Wofford College, 1937.	Lake Toxaway, N. C.
Arbaugh, Robert Newton A.B., Hendrix College, 1937.	Paragould, Ark.
Baker, Homer Ortho A.B., Wake Forest College, 1936.	Wake Forest, N. C.
Barrs, William Kenneth A.B., Duke, 1937.	South Miami, Fla.
Biggers, Sherrill Bost B.Ph., Emory, 1937.	Concord, N. C.
Brady, William Herman A.B., Duke, 1937.	Highfalls, N. C.
Brown, Raymond Odell A.B., High Point College, 1937.	High Point, N. C.
Bustle, Wade Robert A.B., Davidson College, 1937.	Statesville, N. C.
Coley, Herman Theophilus A.B., Wofford College, 1936.	Hillsboro, N. C.
Crutchfield, Finis Alonzo A.B., Southern Methodist, 1937.	Vernon, Texas
Dodge, William Wesley A.B., American, 1937.	McLean, Va.
Evans, Joseph Claude A.B., Wofford College, 1937.	Anderson, S. C.
Floyd, John Lewis A.B., Duke, 1938.	Gasburg, Va.
Foley, Lemley Peter A.B., Berea College, 1937.	Stuart, Va.
Freeman, Ralph Lexie B.S., Tennessee Polytechnic Institute, 1937.	Cumberland Furnace, Tenn.
Garrison, Robert Edmund A.B., Randolph-Macon College, 1937.	Dillwyn, Va.
Hickman, Victor Ralph A.B., Wofford College, 1935.	Springfield, S. C.

- Holder, Ray  
A.B., University of Mississippi, 1935; A.M., University of Mississippi, 1936. Lucedale, Miss.
- Hutchins, Walter Wilbur  
A.B., High Point College, 1935. Apex, N. C.
- Kelley, Marvin Hess  
A.B., Hendrix College, 1937. Holly Grove, Ark.
- Kiker, Seaborn Martin  
A.B., Southern Methodist, 1937. Greenville, Texas
- McLeod, Walter Grey  
A.B., Birmingham-Southern College, 1937. Jackson, Ala.
- Milstead, Harold Ashton  
A.B., St. John's College, 1937. Chicamuxen, Md.
- Nicholson, Ralph Herman  
A.B., Lenoir-Rhyne College, 1937. Statesville, N. C.
- Ousley, Carl Lee  
B.S., Wake Forest College, 1935. Wendell, N. C.
- Pittard, Jessie Leo  
A.B., High Point College, 1936. Roanoke Rapids, N. C.
- Queen, Virgil Erwin  
A.B., Catawba College, 1937. Morganton, N. C.
- Ratliff, Henry Marvin  
A.B., University of Texas, 1937. Austin, Texas
- Reichard, James Charles  
A.B., Davidson College, 1936. Bynum, N. C.
- Richardson, Henry Powell  
A.B., Emory and Henry College, 1937. Narrows, Va.
- Simpson, Harold Ross  
A.B., Catawba College, 1937. Altoona, Pa.
- Spell, James Everett  
A.B., Wofford College, 1934. Smoaks, S. C.
- Stevens, Wyatt Millard  
A.B., Elon College, 1936. Burlington, N. C.
- Taylor, Key Wesley  
B.R.E., Gordon College, 1936. Compton, Calif.

## JUNIOR YEAR

- Arthur, Charles Ralph  
B.S., University of Richmond, 1938. Richmond, Va.
- Blackburn, Linwood Earl  
A.B., Duke, 1938. Fayetteville, N. C.
- Boddie, Wyatt David  
A.B., Centenary College, 1937. Hodge, La.
- Boone, Sidney Grant  
A.B., Duke, 1934. Durham, N. C.
- Brabham, Angus McKay, Jr.  
A.B., University of South Carolina, 1937. Bamberg, S. C.
- Branch, Douglas McKinley  
A.B., Wake Forest College, 1937. Youngsville, N. C.
- Bridewell, Joseph Albert  
A.B., Millsaps College, 1938. Columbia, Miss.
- Conley, George Frederick  
A.B., Wofford College, 1938. Marion, N. C.
- Cooke, Jack  
A.B., Centenary College, 1938. Minden, La.
- Crumpton, Sidney Randolph  
A.B., Wofford College, 1932. Sumter, S. C.
- Davis, Willie Dixon  
A.B., University of South Carolina, 1939. Columbia, S. C.
- Dawson, Dana, Jr.  
A.B., Centenary College, 1938. Shreveport, La.

Duncan, Floyd Alexander A.B., Wofford College, 1938.	Lincolnton, N. C.
Everett, Thomas D., Jr. A.B., Kentucky Wesleyan College, 1938.	Fairview, Ky.
Falls, Robert Watson A.B., Davidson College, 1933.	Fallston, N. C.
Felder, Charles Gabriel B.S., Millsaps College, 1935.	Magnolia, Miss.
Ferguson, Edward Benjamin A.B., University of North Carolina, 1937.	Greenville, N. C.
Galloway, Benedict Atkins A.B., Louisiana State University, 1938.	Raleigh, N. C.
Garner, John Utah A.B., Elon College, 1937.	Greensboro, N. C.
Glenn, Henry Clarence A.B., Duke, 1938.	Eufaula, Ala.
Gray, Alan DeLeon A.B., Birmingham-Southern College, 1938.	Brighton, Ala.
Harrell, Haywood Linwood A.B., Duke, 1938.	Rich Square, N. C.
Heffner, William Frank A.B., Wofford College, 1938.	Maiden, N. C.
Hendrix, Thomas Christian A.B., DePauw University, 1938.	Camargo, Ill.
Inge, John Wesley A.B., Lynchburg College, 1938.	Forest, Va.
Keeler, Edison Ford A.B., Florida Southern College, 1938.	Tampa, Fla.
McGalliard, James Lafayette A.B., Elon College, 1938.	Morganton, N. C.
Madren, Silas Ernest A.B., Elon College, 1929.	Henderson, N. C.
Miller, Irving Roscoe A.B., Catawba College, 1938.	Wilmington, N. C.
Moody, Clarence LeGrand A.B., Elon College, 1938.	Dillon, S. C.
Neese, James Everette A.B., Elon College, 1936.	Henderson, N. C.
Nesbitt, Marion Wilson A.B., Lenoir-Rhyne College, 1938.	Gastonia, N. C.
Parker, Carl Lafayette A.B., Wofford College, 1938.	Ridgeland, S. C.
Pegg, Jabez Paul A.B., University of North Carolina, 1926.	Henderson, N. C.
Prentis, Edward Walker A.B., Evansville College, 1938.	Owensboro, Ky.
Richey, Erika Marx A.B., Salem College, 1936.	Durham, N. C.
Riley, Philip Marshall B.S., Southern Methodist University, 1936.	Fort Worth, Texas
Robertson, Minns Sledge A.B., Louisiana State University, 1936.	Raleigh, N. C.
Rustin, Lee D. A.B., Arizona State Teachers College, 1938.	Pacific Palisades, Calif.
*Stamey, Robert Henry A.B., Duke, 1939.	Lawndale, N. C.
Thompson, Walter Rowe A.B., Duke, 1938.	Midland, N. C.
Waggoner, Brooks Milton A.B., University of Arkansas, 1938.	Rogers, Arkansas

Wilson, Earl Way  
A.B., Duke, 1938.

Durham, N. C.

#### SPECIAL STUDENT

Councilman, Robert Lacy  
A.B., Wake Forest College, 1930; Th.M., Southern Baptist Theological Seminary,  
1933.

Burlington, N. C.

#### JUNALUSKA SCHOOL OF RELIGION

Autry, John Duncan Asbury	Roseboro, N. C.
Beadle, Merritt Stephen	Lafayette, La.
Beadle, Winans Fletcher	Highlands, N. C.
Bright, Edna Perry	Waynesville, N. C.
Caldwell, Elizabeth Haynes	Marion, N. C.
Carlen, Margaret Arlen	Cooksville, Tenn.
Clark, Major Hayes	Dothan, Ala.
Corbitt, Charles Anson	Lower Peach Tree, Ala.
Hager, William Webb	Salisbury, N. C.
Huneycutt, Wiley Jackson	West Jefferson, N. C.
Jenkins, Jane Arlene	Lowell, N. C.
Kennedy, Rhoda Lee	Nashville, Tenn.
Nelson, Ellen Lucille	Russellville, Ark.
O'Neal, Ernest Eugene	Saucier, Miss.
Sentelle, Mary Pauline	Waynesville, N. C.
Stamey, Robert Henry	Lawndale, N. C.
Stillwell, Edgar Herman	Cullowhee, N. C.
Stone, George Henry	Worcester, Mass.
Taylor, Voigt Otway	Southern Pines, N. C.
Walton, Doris	Danville, Va.
Worley, Maud Anne	Canton, N. C.

#### THE SCHOOL OF FORESTRY

##### REGULAR STUDENTS

Adman, Andrew George.....	Waynesboro, Pa.....	1701 Erwin Road
B.S.F., North Carolina State College, 1936		
Andrews, Leslie Kearns.....	Mt. Gilead, N. C.....	Duke University
B.S.F., North Carolina State College, 1936		
Bethel, James Samuel.....	Roy, Wash.....	201 Jones Street
B.S.F., University of Washington, 1937		
Bogges, William Randolph.....	Oakvale, W. Va.....	Rigsbee Road
A.B., Concord State Teachers College, 1933		
Carlton, John Buford.....	Hartwell, Ga.....	1013 Broad Street
B.S.F., University of Georgia, 1937		
Chisman, Henry Harmon.....	Carnegie, Pa.....	2121 Pettigrew Street
B.S., Pennsylvania State College, 1932		



Haines, Harry Caum.....	Elkhart, Ind.....	704 Buchanan Boulevard
B.S.F., Purdue University, 1936		
Jones, William Curry, Jr.....	Chapman, Ala.....	708 Buchanan Boulevard
A.B., Birmingham-Southern College, 1938		
Miller, Ira Malcolm.....	Brooklyn, N. Y.....	A-209
A.B., Emory University, 1938		
Morgan, Kenneth James.....	Albany, N. Y.....	1013 Broad Street
B.S., Cornell University, 1934		
Morrison, Alfred Warren.....	Knoxville, Tenn.....	116 Market Street
A.B., University of Tennessee, 1938		
Owens, William Robert, Jr.....	Covington, Va.....	C-202
B.S., Duke University, 1938		
Riley, Madison Monroe.....	Raleigh, N. C.....	Raleigh, N. C.
B.S.F., North Carolina State College, 1933		
Rosendahl, Russell Otto.....	St. Paul, Minn....	704 Buchanan Boulevard
B.S.F., University of Minnesota, 1936		
Scarff, James Griffith.....	San Pedro de Macoris, Domin. Rep.,	A-209
A.B., Yale University, 1938		
Scott, Howard Reynolds.....	Athens, Ga.....	University Apts., M-1-B
B.S.F., University of Georgia, 1936		
Smith, Ivan Wade.....	Hendersonville, N. C....	204 N. Driver Ave.
B.S.F., North Carolina State College, 1938		
Watkins, Virgil Gray.....	Kent's Store, Va.....	810 Second Street
B.S., University of Virginia, 1937		
Wellwood, Robert William.....	Victoria, B. C., Canada.	704 Buchanan Blvd.
B.A. Sc., University of British Columbia, 1935		
Wright, Thomas George.....	Warren, Pa.....	1115 Chapel Hill Street
B.S.F., Pennsylvania State College, 1937		
Total.....		20

## SPECIAL STUDENT

Wang, Yen-chieh .....	Peiping, China....	704 Buchanan Boulevard
B.S., Tsing Hua University, 1929; M.S., Cornell University, 1936		

## PRE-FORESTRY SENIORS IN THE SCHOOL OF FORESTRY

Bigger, William Parker.....	Pyengyang, Korea, Japan....	102 Epworth
Crumpacker, William Johnson....	Durham, N. C.....	617 Shepherd Street
Total.....		2

STUDENTS OF FORESTRY IN THE GRADUATE SCHOOL OF  
ARTS AND SCIENCES

Bethel, James Samuel.....	Roy, Wash.....	201 Jones Street
B.S.F., University of Washington, 1937		
Merrick, Gordon Danforth.....	Tucson, Ariz.....	918 Urban Avenue
B.S., University of Chicago, 1931		
Toole, Eben Richard.....	Lanham, Md.....	704 Buchanan Boulevard
B.S.F., New York State College of Forestry, 1935; M.A., Duke University, 1938		
Wang, Yen-chieh.....	Peiping, China....	704 Buchanan Boulevard
B.S., Tsing Hua University, 1929; M.S., Cornell University, 1936		
Total.....		4



## SUMMARY

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### GOVERNMENT, ADMINISTRATION, AND INSTRUCTION

Governing Boards .....		51
Trustees of Duke University .....	36	
Trustees of Duke Endowment .....	15	
Officers of Administration .....		67
The University .....	4	
Trinity College, the Woman's College and the Schools	25	
Assistants in Administration .....	38	
Officers of Instruction .....		424*
Professors .....	102	
Associate Professors .....	40	
Assistant Professors .....	74	
Instructors .....	140	
Instructional Assistants .....	68**	
Staff of University Libraries .....		71
TOTAL .....		613

### STUDENTS

Trinity College .....		1,750
Seniors .....	286	
(includes 40 summer school graduates)		
Juniors .....	322	
Sophomores .....	438	
Freshmen .....	687	
(includes 177 advanced freshmen)		
Special students .....	17	
Woman's College .....		867
Seniors .....	171	
Juniors .....	169	
Sophomores .....	219	
Freshmen .....	278	
(includes 26 advanced freshmen)		
Special students .....	28	
Auditors .....	2	
College of Engineering .....		201
The Graduate School of Arts and Sciences .....		1,411
(262 of these in regular academic year)		

\* Does not include visiting members of Summer School faculty.

\*\* Does not include Graduate Assistants, Fellows and Scholars some of whom meet classes.

The School of Law .....	114
First Year .....	47
Second Year .....	36
Third Year .....	31
The School of Medicine .....	333
First Year .....	70
Second Year .....	67
Junior-Senior Year .....	120
Graduates (Internes and Residents) .....	76
The School of Nursing .....	103
Technicians .....	11
The School of Dietetics .....	6
The School of Religion .....	117
Seniors .....	39
Middle Year .....	35
Juniors .....	43
The Summer School (less duplicates) .....	2,880
Graduates, First Term .....	1,334
Graduates, Second Term .....	606
Undergraduates, First Term .....	843
Undergraduates, Second Term .....	407
Junaluska Summer School, affiliated with Duke University .....	185
Summer Quarter, Schools of Medicine and Nursing ... (includes special research students)	138
	<hr/>
Deduction for names appearing more than once .....	7,592
	<hr/>
Enrollment for 12 months' period .....	1,871
	<hr/>
Enrollment in academic year .....	5,721
	<hr/>
	3,552

## GIFTS AND BEQUESTS

Duke University derives its principal support from endowment funds and from miscellaneous gifts and grants. Permanently invested capital funds enable the University to offer to students academic and professional training at a fraction of its actual cost. The effectiveness of the University is determined to a large extent by its financial resources.

Gifts and bequests devoted to the improvement of the work of the University will be received and administered by the trustees in accordance with the desires of the donor.

*Gifts.* Any kind of property, real or personal, may be the subject of a gift and only such form as is required to pass title is necessary. If the gift consists of real property, the title will be passed by deed; if it consists of cash or unregistered bonds, the gift is consummated by delivery of the property; or if stocks, by delivery of properly endorsed stock certificates. Unless restricted, the use of gifts is at the discretion of the Board of Trustees. Usually the proceeds, conservatively invested, are added to the permanent endowment of the University. The donor may, however, restrict the use of any gift and designate definitely the objects for which it shall be used. In such cases, the transfer of property would be accomplished by a letter or other document describing in detail the objects for which the proceeds of the gift are to be used and when accepted by the University the terms or conditions set out therein become binding upon it.

*Bequests.* Bequests may be made to the University by an appropriate clause inserted in a will or by codicil to a will already drawn. The following forms will serve as appropriate clauses for wills or codicils:

### General

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, and its successors forever the sum of..... dollars (or otherwise describe the gift) for the general purposes and uses of the University at the discretion of the Board of Trustees.

### Specific

I give (devise; if real property) and bequeath to Duke University, a corporation existing under the laws of the State of North Carolina and located in the City and County of Durham, State of North Carolina, or its successors forever, the sum of.....dollars (or otherwise describe gift) and direct that the income therefrom shall be used for the following purposes, viz. (here describe in detail the use desired).

### Codicil

Having herebefore made my last Will and Testament dated....., and being of sound mind, I hereby make, publish, and declare the following codicil thereto: (here insert clause in same form as if it had been included in body of Will). Except as hereinbefore changed, I hereby ratify, confirm and republish my said last Will and Testament.





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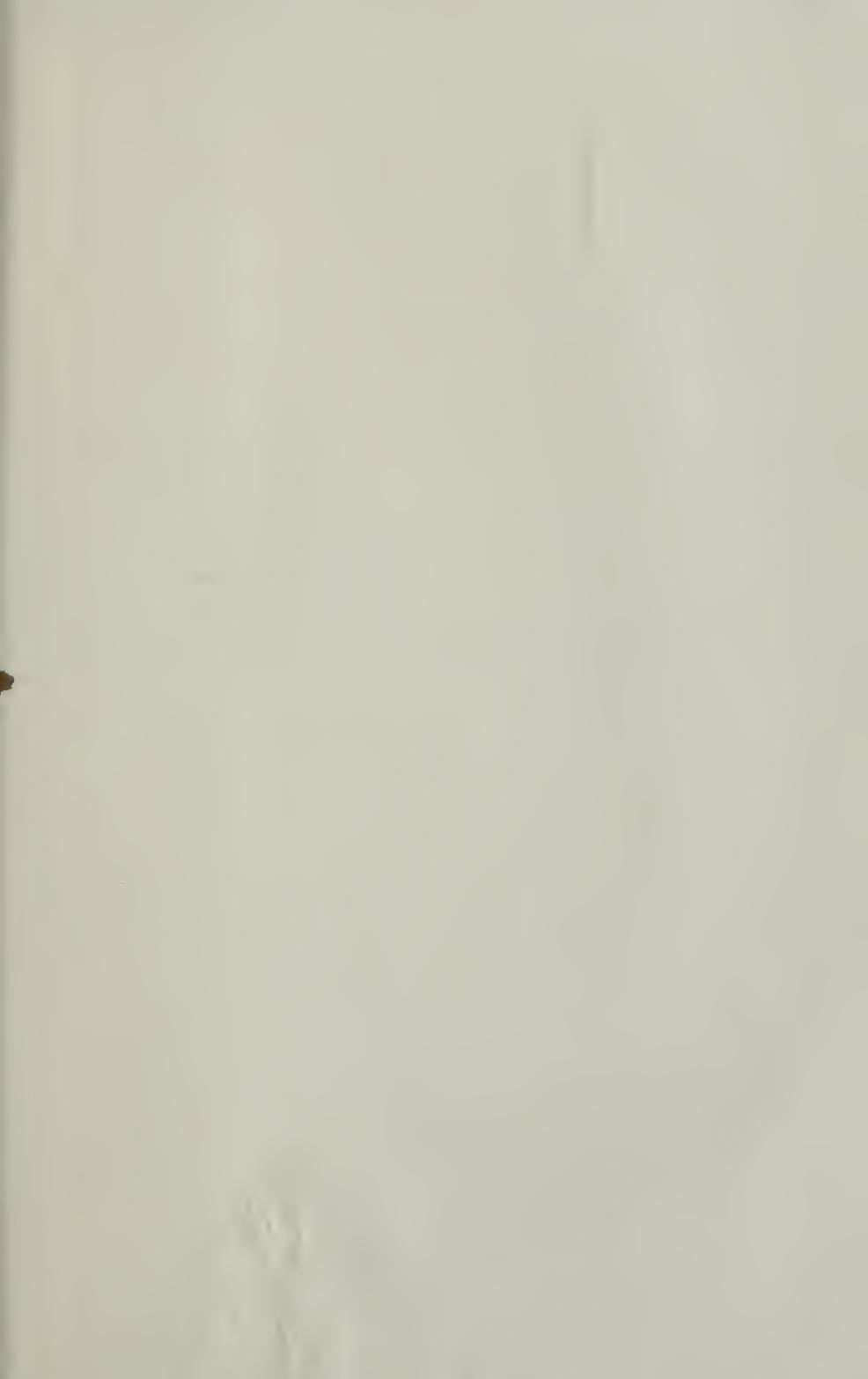
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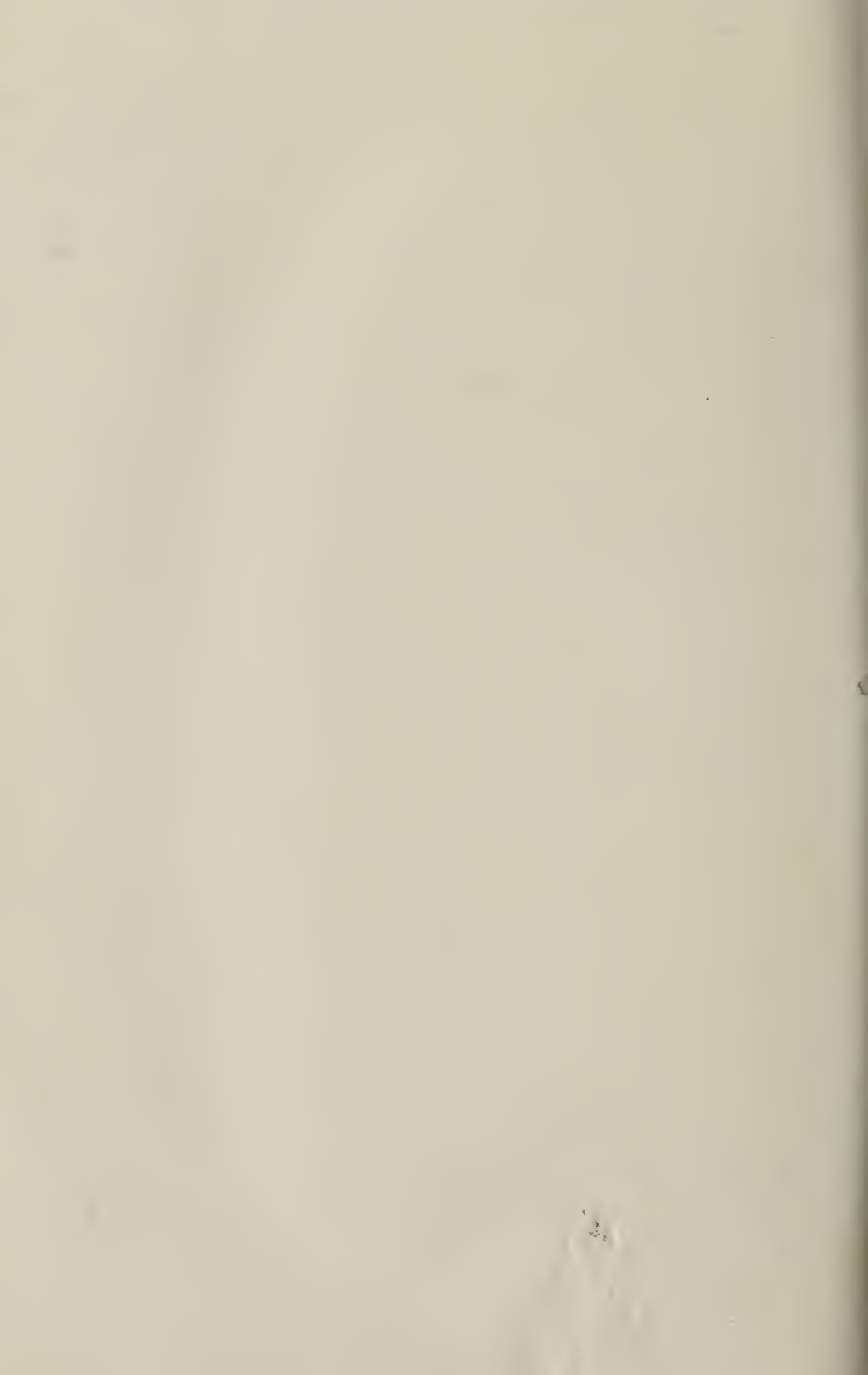
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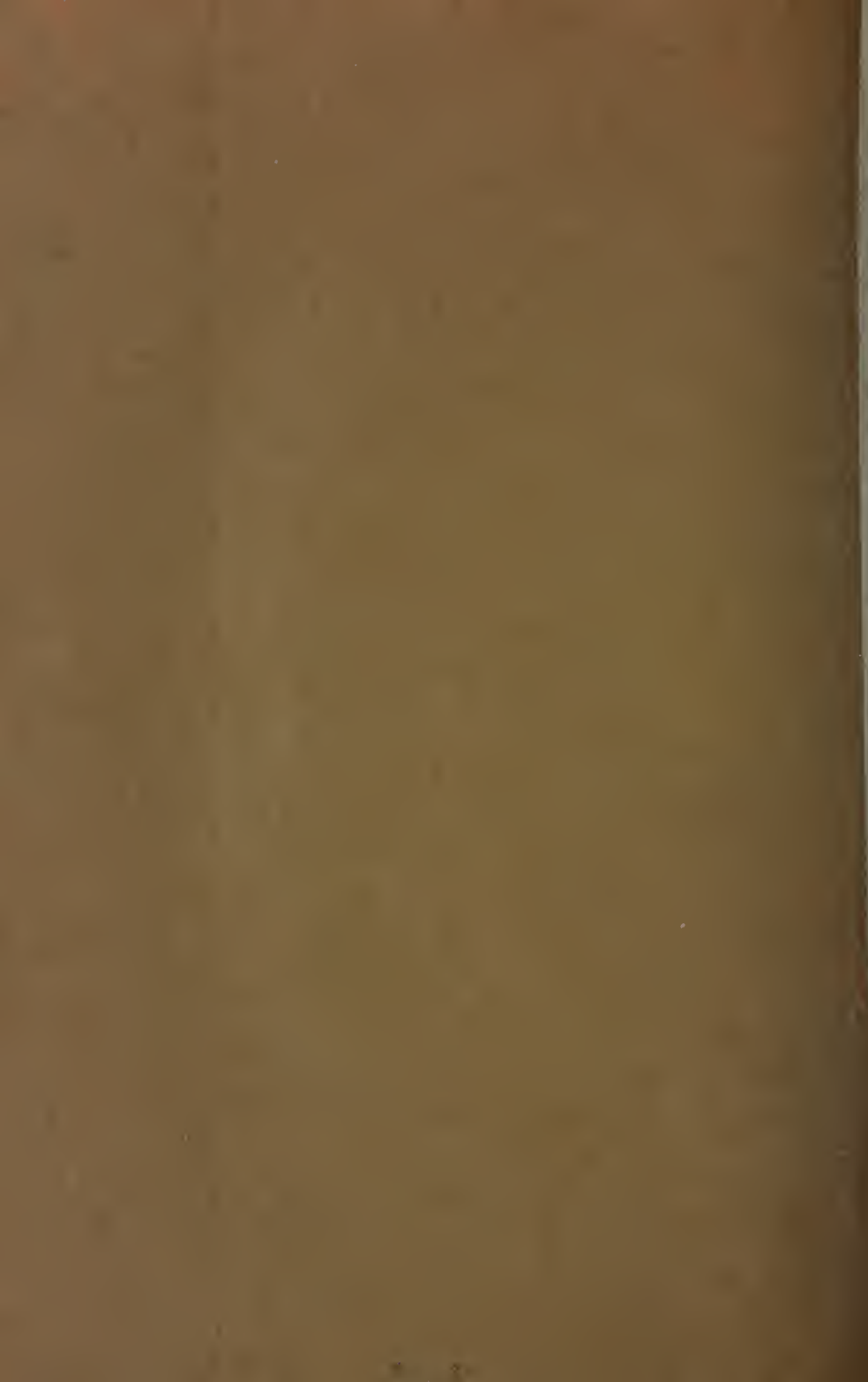










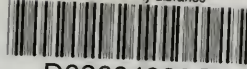








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